



# 173-183 Rickard Road, Leppington Site A - SSD-99319962

## Section J Assessment – Deemed to Satisfy

**Leppington (1) 88 Development Pty Ltd**

Prepared by:

**SLR Consulting Australia**

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## Revision Record

| Revision | Date        | Prepared By | Checked By       | Authorised By        |
|----------|-------------|-------------|------------------|----------------------|
| 01       | 3 June 2026 | Shawn Sun   | Anthony Marklund | Dr Neihad Al-Khalidy |
|          |             |             |                  |                      |
|          |             |             |                  |                      |
|          |             |             |                  |                      |
|          |             |             |                  |                      |

## Basis of Report and Disclaimer

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Leppington (1) 88 Development Pty Ltd (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.



## Executive Summary

This Section J Deem-to-Satisfy Report has been prepared by SLR Consulting Pty Ltd (SLR) on behalf of Leppington (1) 88 Development Pty Ltd (**the Applicant**) to address the project-specific Secretary's Environmental Assessment Requirements (SEARs) issued the proposed State Significant Development Application (SSDA) SSD-99319962. The development is located at 173-183 Rickard Road, Leppington (the Site) and is located within the South West Growth Area (**SWGGA**) within the Camden Local Government Area (**LGA**).

The project seeks detailed development consent for the construction of a mixed-use development to deliver Leppington Civic Centre, comprising shop top housing to support residential development and commercial land uses at 173-183 Rickard Road, Leppington.

Specifically, the SSDA seeks consent for:

- Demolition and earthworks to prepare the site for future development.
- Delivery of new roads and approximately 6,500 sqm of open space.
- Delivery of 8 residential buildings to accommodate a total of 1493 units, comprising of:
  - Build to Sell Apartments: 864
  - Build to Rent Apartments: 412
  - Affordable Apartments 217 (representing circa 15% of total residential yield)
- Delivery of a 156-key hotel (non-residential).
- Approximately 40,500 sqm of non-residential Gross Floor Area (GFA).
- Loading and car parking facilities on the lower ground and basement levels.
- The proposed development is supported by concurrent rezoning application to seek amendments to Appendix 5 Camden Growth Centres Precinct Plan within the *State Environmental Planning Policy (Precincts – Western Parkland City) 2021* pursuant to the concurrent rezoning process through the Housing Delivery Authority (**HDA**) planning pathway. This concurrent rezoning will provide the rezoning and variations to development standards required to facilitate the delivery of the Leppington Civic Centre and Leppington Town Centre, generally in accordance with the Leppington Town Centre State-Assessed Rezoning Proposal (**SARP**).

The application seeks approval for the following mixed-use development, including the below:

- 5 levels of basement carpark spaces, with storage and car services
- A potential swim school in Building 1
- Retail areas from Lower Ground to Level 1 across Building 1 to Building 8
- Family entertainment on Level 1 in Building 5
- Fitness on Level 1 in Building 6
- Hotel lobby on Upper Ground and Level 1 in Building 4
- Hotel rooms from Level 2 to Level 11 in Building 4



- Residential apartments from Level 2 to Level 36 in Building 1, 2, 3, 5, 6, 7 and 8

This report only focuses on the non-residential components – the swim school, retail areas, and the hotel.

This requirement has been defined in Volume 1 of the 2022 NCC under Section J and is titled Energy Efficiency. Several Deemed-to-Satisfy subsections focus on separate aspects of energy efficiency.

- J4 - Building fabric
- J5 - Building sealing
- J6 - Air-conditioning and ventilation
- J7 - Artificial light and power
- J8 - Heated water supply and swimming pool and spa pool plant
- J9 - Energy monitoring and on-site distributed energy resources

The NCC currently defines the development area as climate zone 6.

The sub classification for the proposed building is:

- Retail space – Class 6
- Hotel and associated services – Class 3
- Swim school – Class 9b
- Fitness – Class 9b
- Family Entertainment – Class 9b

SLR recommends the following to the building fabrics to comply with NCC 2022 Section J:

- Roof and ceiling insulation requirements have been specified within Table 1. The total R-value of the roof system is required to be R3.2 where specified in Appendix A.
- Floor insulation requirements have been specified within Table 7. The total R-value of the floor system is required to be R2.0 where specified in Appendix B.
- Wall-glazing requirements and wall requirements have been specified within Table 4 and Table 5.
  - The total R-value of the external wall system is required to be R2.08 for external walls where specified in Appendix C.
  - The total R-value of the internal wall system is required to be R2.08 for internal walls where specified in Appendix C





This report contains requirements for building sealing, air conditioning, artificial lighting, hot water supply, and the Facilities for Energy Monitoring.

This report has provided advice about each subsection under Section J and identified how compliance with the NCC can be achieved regarding the proposed building. The architect and services designers must specify and document compliant constructions showing NCC Section J requirements are met.



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**Appendix C      Marked-up drawing for and NCC 2022 wall-glazing calculator DTS  
                         requirements external wall**

**Appendix D      Glazing Calculator**



## 1.0 Introduction

This Section J Deem-to-Satisfy Report has been prepared by SLR Consulting Pty Ltd (SLR) on behalf of Leppington (1) 88 Development Pty Ltd (**the Applicant**) to address the project-specific Secretary's Environmental Assessment Requirements (SEARs) issued the proposed State Significant Development Application (SSDA) SSD-99319962. The development is located at 173-183 Rickard Road, Leppington (the Site) and is located within the South West Growth Area (**SWG**A) within the Camden Local Government Area (**LGA**).

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- Delivery of a 156-key hotel (non-residential).
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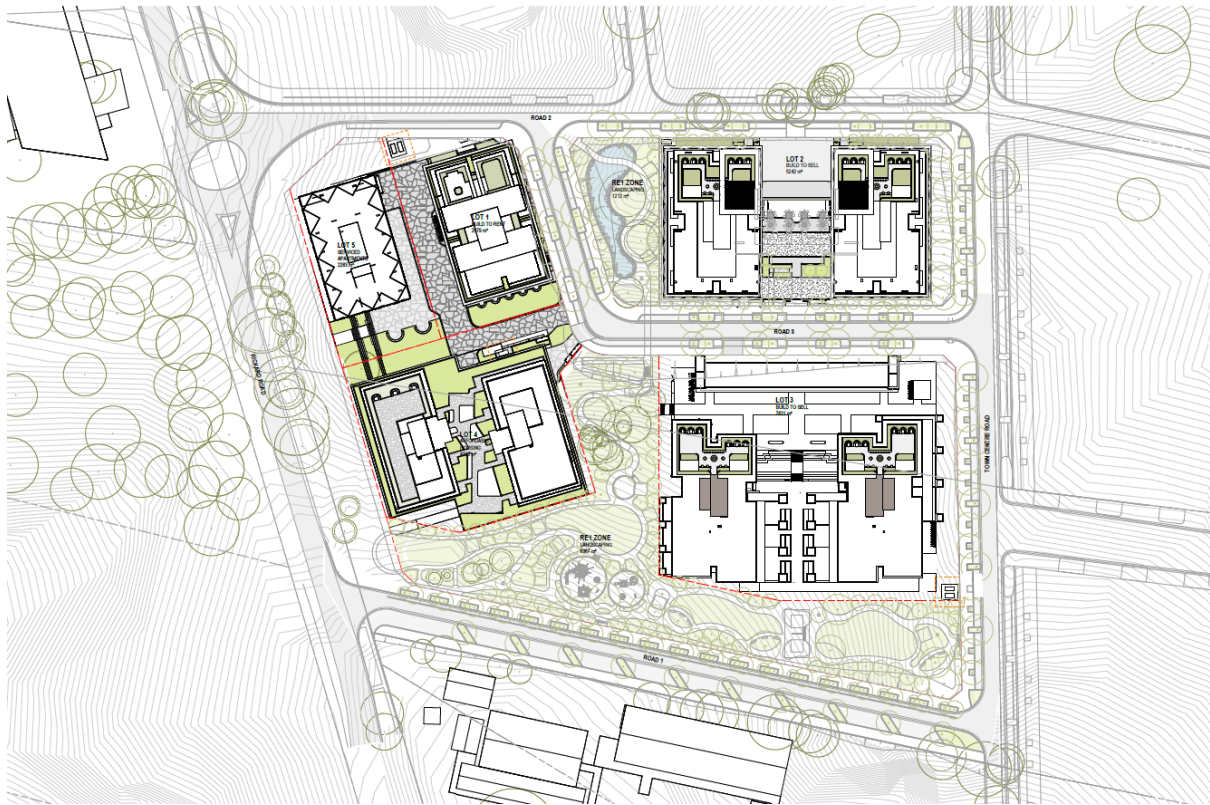


Figure 1: SSDA – Proposed Works

## 1.1 Proposed Development Description

The proposal seeks consent for:

- **Approval of a Concurrent Rezoning Amendment:** To facilitate the built form proposed under SSD- 99319962, concurrent amendments are sought to the WPC SEPP pursuant to the concurrent rezoning process facilitated by the HDA planning pathway. This concurrent rezoning seeks to vary existing controls under the WPC, whilst also seeking broad alignment with the LTC SARP which is expected to be finalised by DPHI mid-2026. Specifically, the project seeks to amend the WPC SEPP as follows:
  - Amend the Land Zoning Map to rezone the site from B3 Commercial Centre to MU1 Mixed Use.
  - Amend Clause 4.3 to increase the height of buildings control from 24m to 138.5m.
  - Introduce a floor space ratio control of 5.8:1 for the entire site, equates to approximately 188,000sqm of GFA.
  - Incorporating a site-specific provision, requiring the provision of a minimum of 6,500sqm of public open space
- **State Significant Development consent for the proposed development:** The SSDA seeks detailed consent for the following works:



- Demolition of existing structures, clearing of vegetation and site preparation works across the site.
- *Subdivision of the site to create separate lots and road reserves.*
- *Bulk earthworks and civil infrastructure works across the site.*
- *Construction of an internal street (road) network.*
- *Construction of 8 residential buildings to accommodate a total of 1493 units, comprising of:*
  - Build to Sell Apartments: 864
  - Build to Rent Apartments: 412
  - Affordable Apartments 217 (representing circa 15% of total residential yield)

*Delivery of approximately 40,500m<sup>2</sup> of non-residential floor space, including:*

- Hotel (with ancillary function spaces)
- Centre-based child care facility, accommodating approx. 70 children.
- Pub (licensed)
- Shop – neighbourhood supermarket, discount department store (DDS), other retail
- Retail liquor store
- Food and beverage premises
- Vehicle repair station – Tyre and auto, carwash
- Recreation facility (indoor) – Indoor swim school, Gym
- *Delivery of retail and residential parking spaces across seven (7) basement levels*
- *Delivery of an active and connected public domain, including:*
  - *Approximately 6,500sqm of public open space in the form of north-south and east-west linear parks that connect with the broader town centre.*
  - *communal open space for all residential occupants and visitors.*
- *Street landscaping, tree planting and public domain works throughout the site.*
- Installation of building signage to support wayfinding and building identification across the precinct.





The application seeks approval for the following mixed-use development, including the below:

- 5 levels of basement carpark spaces, with storage and car services
- A potential swim school in Building 1
- Retail areas from Lower Ground to Level 1 across Building 1 to Building 8
- Family entertainment on Level 1 in Building 5
- Childcare facilities on Level 1 in Building 6
- Fitness on Level 1 in Building 8
- Hotel lobby on Upper Ground and Level 1 in Building 4
- Hotel rooms from Level 2 to Level 11 in Building 4
- Residential apartments from Level 2 to Level 36 in Building 1, 2, 3, 5, 6, 7 and 8

This report only focuses on the non-residential components – the swim school, retail areas, and the hotel.

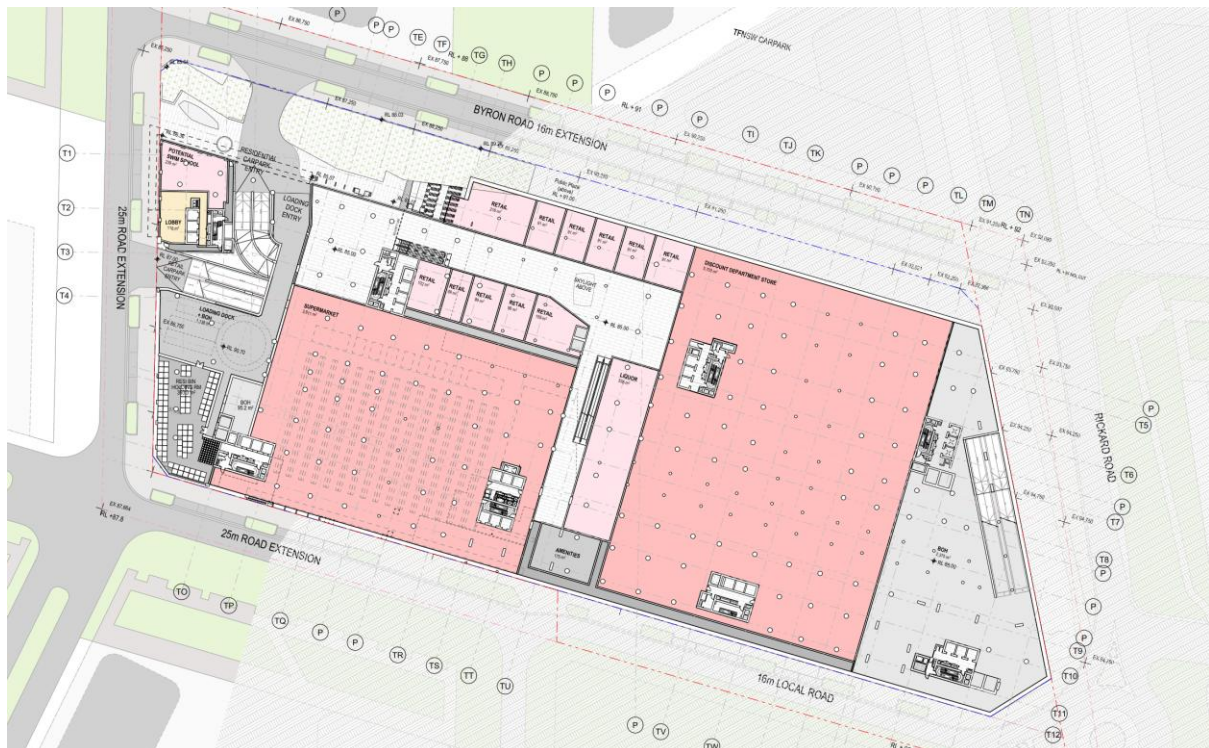
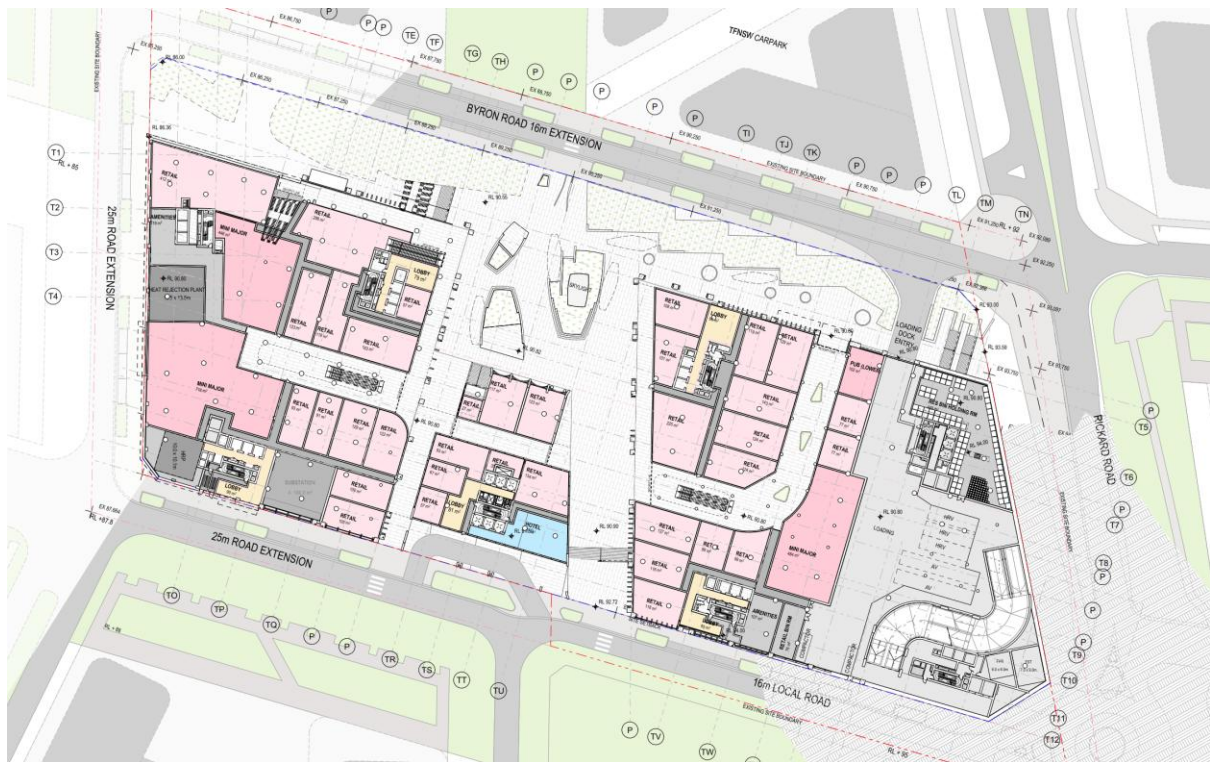
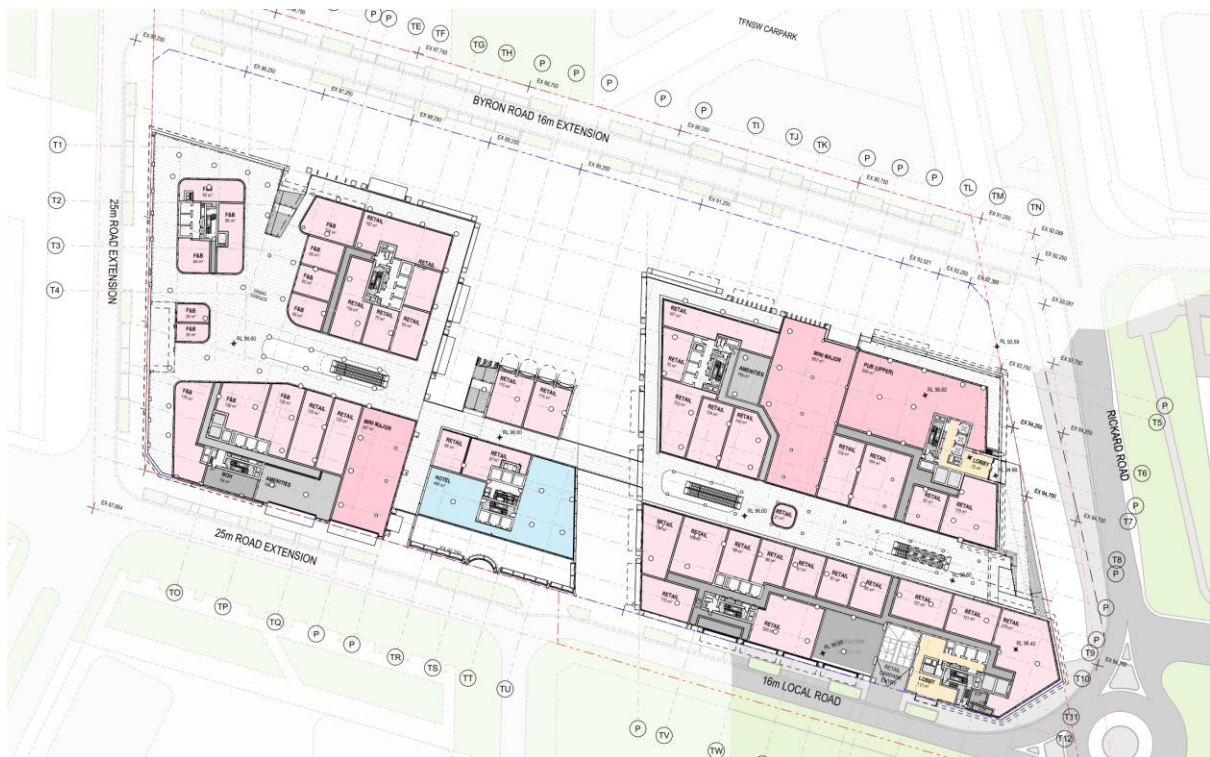


Figure 2: Plan Views of the Proposed Development  
Lower Ground Level





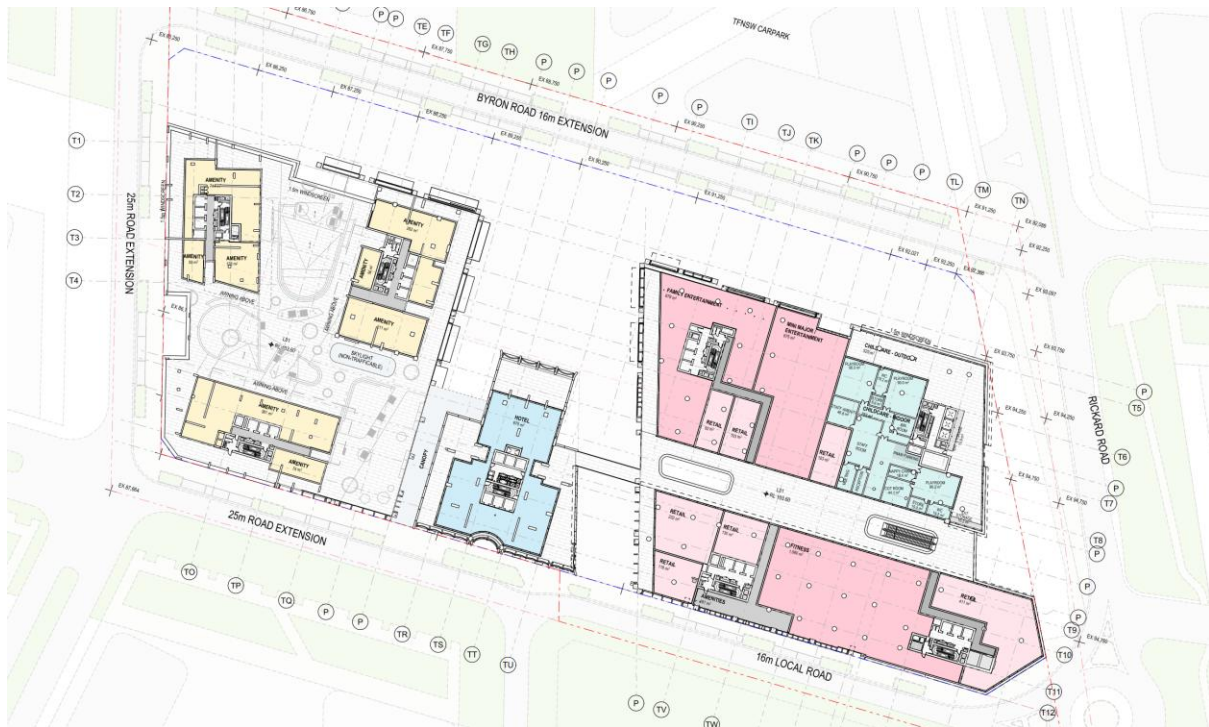
Ground Level



Upper Ground Level







Level 1



Level 2





Level 3 to Level 10



Level 11



## 2.0 Building Code of Australia Energy Efficiency Requirements

Since the 2006 release of the Building Code of Australia (BCA) it is a mandatory requirement for all BCA class buildings, except Class 4 and Class 10 buildings, to achieve efficient use of energy.

This requirement has been defined in Volume 1 of the 2022 NCC under Section J and is titled *Energy Efficiency*. There subsections focus on separate aspects of energy efficiency.

- J4 - Building Fabric.
- J5 - Building Sealing.
- J6 - Air Conditioning and Ventilation Systems.
- J7 - Artificial Lighting and Power.
- J8 - Heated Water Supply and Swimming Pool and Spa Pool Plant.
- J9D3 - Facilities for Energy Monitoring.

This report will provide advice about each subsection and identify how compliance with the NCC can be achieved for these new requirements regarding the proposed re-development.

It shall remain the responsibility of the building designers to ensure that the installation meets the requirements of this report, and in turn the NCC.

### 2.1 Defining the Building Class

The sub classification for the proposed building is:

- Retail space – Class 6
- Hotel and associated services – Class 3
- Swim school – Class 9b
- Fitness – Class 9b
- Childcare – Class 9b
- Family Entertainment – Class 9b

### 2.2 Defining the Energy Efficiency Requirements

The objective of Section J from Volume 1 of the NCC defines this section as being applicable to Class 2 to 9 buildings, other than Class 7, 8 or 9b buildings that do not have conditioned space. In this instance of the proposed development, there are requirements for compliance with Section J.

This report assumes the 2022 NCC Section J compliance for this development will be achieved through the Deemed-to-Satisfy method. In order to achieve compliance with Section J of the 2022 NCC, the proposed development must satisfy and achieve all requirements of every Deemed-to-Satisfy subsections where applicable.





## 2.3 Defining the BCA Climate

As the proposed development is situated within Taren Point, NSW, parts of the NCC requirements will be based on these climate characteristics. The NCC currently defines the development area as climate zone 6 (shown in **Figure 3**).

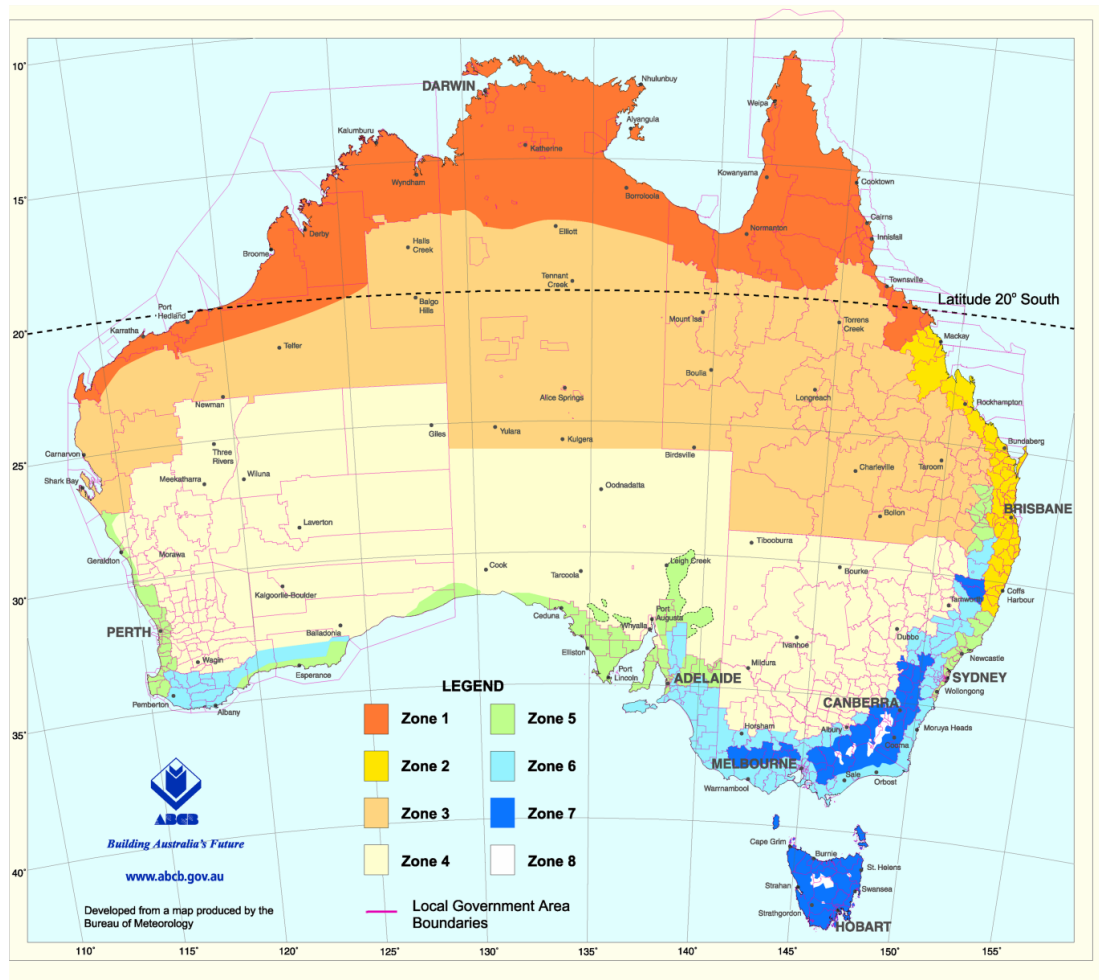


Figure 3: Building Code of Australia Climate Zone Map

## 2.4 Design Documents

The report is prepared based on the design information received on 1 May 2026. The mark-up drawings used in this report are attached in Appendices.



## 3.0 Part J4 – Building Fabric

Part J4 of the 2022 NCC contains the requirements of the Deemed-to-Satisfy compliance of the building fabric. The purpose of this subsection is to ensure that the building fabric will provide sufficient thermal insulation to minimise heating and cooling loads placed on the building and the commensurate energy consumption HVAC systems servicing internal building spaces.

### 3.1 J4D2 – Application

As stated by the 2022 NCC, Part J4 applies to the commercial components of proposed building, including the swim school, retails, fitness, family entertainment, and the hotel with its services.

### 3.2 J4D3 – General Thermal Construction

Where thermal insulation is installed in exterior envelope walls or roof of the proposed development, the insulation must comply with AS/NZS 4859.1 and be installed so that it:

- a. abuts or overlaps adjoining insulation other than at supporting members such as studs, noggings, joists, furring channels and the like where the insulation must be against the member;
- b. forms a continuous barrier with ceilings, walls, bulkheads, floors or the like that inherently contribute to the thermal barrier; and
- c. does not affect the safe or effective operation of a *service* or fitting.

Where reflective insulation is installed in exterior envelope walls or roof of the proposed development, it must be installed with:

- a. the necessary airspace to achieve the *required R-Value* between a reflective side of the *reflective insulation* and a building lining or cladding;
- b. the *reflective insulation* closely fitted against any penetration, door or *window* opening;
- c. the *reflective insulation* adequately supported by framing members; and
- d. each adjoining sheet of roll membrane being:
  - overlapped not less than 50 mm; or
  - taped together.

Where bulk insulation is installed in exterior envelope walls or roof of the proposed development, it must be installed so that:

- it maintains its position and thickness, other than where it is compressed between cladding and supporting members, water pipes, electrical cabling or the like; and
- in ceilings where there is no bulk insulation or *reflective insulation* in the wall, it overlaps the wall member by not less than 50 mm.

The required Total R-Value and Total System U-Value, including allowance for thermal bridging, must be

- calculated in accordance with AS/NZS 4859.2 for a roof or floor; or



- determined in accordance with Specification 37 for wall-glazing construction; or
- determined in accordance with Specification 39 or Section 3.5 of CIBSE Guide A for soil or sub-floor spaces.

### 3.3 J4D4 – Roof and Ceiling Insulation

The proposed re-development is located in climate zone 6, the roof and ceiling system that is part of the envelope must achieve the minimum Total R-value of:

- in climate zones 1, 2, 3, 4 and 5, R3.7 for a downward direction of heat flow; and
- in climate zones 6, R3.2 for a downward direction of heat flow; and
- In climate zones 1, 2, 3, 4, 5, 6 and 7, the solar absorptance of the upper surface of a roof must be not more than 0.45.

**Table 1 Roof R-value**

| Existing Roof                | R-Value | R-Value Requirement                                                        | Compliance                    | Recommendations                                                                         |
|------------------------------|---------|----------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------|
| Concrete slab + Plasterboard | 0.3     | 3.2 (with a roof upper surface solar absorptance value not more than 0.45) | Compliance Readily Achievable | Additional insulation is required to meet the prescribed average total R value of R3.2. |

Detailed mark ups of required roof insulation are shown in **Appendix A**.

### 3.4 J4D5 – Roof Lights

No roof lights have been provided to the proposed building, therefore this section is not applicable.

### 3.5 J4D6 – Walls and Glazing

The Total System U-Value of wall-glazing construction must not be greater than—

- for a Class 2 common area, a Class 5, 6, 7, 8 or 9b building or a Class 9a building other than a ward area, U2.0; and
- for a Class 3 or 9c building or a Class 9a ward area—
  - In climate zones 1, 3, 4, 6 or 7, U1.1; or
  - In climate zones 2 or 5, U2.0; or
  - in climate zone 8, U0.9.

The Total System U-Value of display glazing must not be greater than U5.8.

The Total System U-Value of wall-glazing construction must be calculated in accordance with Specification 37.

Wall components of a wall-glazing construction must achieve a minimum Total R-Value of—





- where the wall is less than 80% of the area of the wall-glazing construction, R1.0; or
- where the wall is 80% or more of the area of the wall-glazing construction, the value specified in Table J4D6a.

**Table 2 Copy of J4D6a Minimum wall Total R-Value - Wall area 80% or more of wall-glazing construction area**

**Table J4D6a: Minimum wall Total R-Value - Wall area 80% or more of wall-glazing construction area**

| <i>Climate zone</i> | <i>Class 2 common area, Class 5, 6, 7, 8 or 9b building or a Class 9a building other than a ward area</i> | <i>Class 3 or 9c building or Class 9a ward area</i> |
|---------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1                   | 2.4                                                                                                       | 3.3                                                 |
| 2                   | 1.4                                                                                                       | 1.4                                                 |
| 3                   | 1.4                                                                                                       | 3.3                                                 |
| 4                   | 1.4                                                                                                       | 2.8                                                 |
| 5                   | 1.4                                                                                                       | 1.4                                                 |
| 6                   | 1.4                                                                                                       | 2.8                                                 |
| 7                   | 1.4                                                                                                       | 2.8                                                 |
| 8                   | 1.4                                                                                                       | 3.8                                                 |

The solar admittance of externally facing wall-glazing construction must not be greater than—

- for a Class 2 common area, a Class 5, 6, 7, 8 or 9b building or a Class 9a building other than a ward area, the values specified in Table J4D6b; and
- for a Class 3 or 9c building or a Class 9a ward area, the values specified in Table J4D6c.

The solar admittance of a wall-glazing construction must be calculated in accordance with Specification 37.

The Total system SHGC of display glazing must not be greater than 0.81 divided by the applicable shading factor specified in Clause 7 of Specification 37c7.



**Table 3 Maximum wall-glazing construction solar admittance - Class 2 common area, Class 5, 6, 7, 8 or 9b building or Class 9a building other than a ward area**

**Table J4D6b: Maximum wall-glazing construction solar admittance - Class 2 common area, Class 5, 6, 7, 8 or 9b building or Class 9a building other than a ward area**

| Climate zone | Eastern aspect solar admittance | Northern aspect solar admittance | Southern aspect solar admittance | Western aspect solar admittance |
|--------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|
| 1            | 0.12                            | 0.12                             | 0.12                             | 0.12                            |
| 2            | 0.13                            | 0.13                             | 0.13                             | 0.13                            |
| 3            | 0.16                            | 0.16                             | 0.16                             | 0.16                            |
| 4            | 0.13                            | 0.13                             | 0.13                             | 0.13                            |
| 5            | 0.13                            | 0.13                             | 0.13                             | 0.13                            |
| 6            | 0.13                            | 0.13                             | 0.13                             | 0.13                            |
| 7            | 0.13                            | 0.13                             | 0.13                             | 0.13                            |
| 8            | 0.2                             | 0.2                              | 0.42                             | 0.36                            |

**Maximum wall-glazing construction solar admittance - Class 3 or 9c building or Class 9a ward area**

| Climate zone | Eastern aspect solar admittance | Northern aspect solar admittance | Southern aspect solar admittance | Western aspect solar admittance |
|--------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|
| 1            | 0.07                            | 0.07                             | 0.10                             | 0.07                            |
| 2            | 0.10                            | 0.10                             | 0.10                             | 0.10                            |
| 3            | 0.07                            | 0.07                             | 0.07                             | 0.07                            |
| 4            | 0.07                            | 0.07                             | 0.07                             | 0.07                            |
| 5            | 0.10                            | 0.10                             | 0.10                             | 0.10                            |
| 6            | 0.07                            | 0.07                             | 0.07                             | 0.07                            |

| Climate zone | Eastern aspect solar admittance | Northern aspect solar admittance | Southern aspect solar admittance | Western aspect solar admittance |
|--------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|
| 7            | 0.07                            | 0.07                             | 0.08                             | 0.07                            |
| 8            | 0.08                            | 0.08                             | 0.08                             | 0.08                            |

**Table 4 Wall-Glazing Calculation Results and Recommended average U-value and SHGC**

| Description      | Facade | Wall-Glazing U-Value <sup>1</sup> | Solar Admittance | Compliance <sup>2</sup> |                     | Recommended Average <sup>3</sup> – Glazing System |      |
|------------------|--------|-----------------------------------|------------------|-------------------------|---------------------|---------------------------------------------------|------|
|                  |        |                                   |                  | Method 1                | Method 2 (Combined) | U-Value                                           | SHGC |
| LG – Swim School | North  | 3.64                              | 0.17             | No                      | Yes                 | 4.50                                              | 0.29 |
|                  | East   | 0.48                              | -                | Yes                     | Yes                 | 4.50                                              | 0.29 |
|                  | South  | 0.48                              | -                | Yes                     | Yes                 | 4.50                                              | 0.29 |
|                  | West   | 3.64                              | 0.10             | No                      | Yes                 | 4.50                                              | 0.29 |



| Description                                          | Facade | Wall-<br>Glazing<br>U-<br>Value <sup>1</sup> | Solar<br>Admittance | Compliance <sup>2</sup> |                        | Recommended<br>Average <sup>3</sup> – Glazing<br>System |      |
|------------------------------------------------------|--------|----------------------------------------------|---------------------|-------------------------|------------------------|---------------------------------------------------------|------|
|                                                      |        |                                              |                     | Method<br>1             | Method 2<br>(Combined) | U-Value                                                 | SHGC |
| LG – Retail<br>(SW,<br>Supermarket)                  | North  | 0.48                                         | -                   | Yes                     | Yes                    | 5.80                                                    | 0.45 |
|                                                      | East   | 2.82                                         | 0.12                | No                      | Yes                    | 5.80                                                    | 0.45 |
|                                                      | South  | 0.48                                         | -                   | Yes                     | Yes                    | 5.80                                                    | 0.45 |
|                                                      | West   | 0.48                                         | -                   | Yes                     | Yes                    | 5.80                                                    | 0.45 |
| LG – Retail<br>(NE, Discount<br>Department<br>Store) | North  | 0.48                                         | -                   | Yes                     | Yes                    | 5.80                                                    | 0.45 |
|                                                      | East   | 0.48                                         | -                   | Yes                     | Yes                    | 5.80                                                    | 0.45 |
|                                                      | South  | 4.66                                         | 0.12                | No                      | Yes                    | 5.80                                                    | 0.45 |
|                                                      | West   | 4.26                                         | 0.11                | No                      | Yes                    | 5.80                                                    | 0.45 |
| LG – Retail<br>(Middle)                              | North  | 3.98                                         | 0.10                | No                      | Yes                    | 5.80                                                    | 0.45 |
|                                                      | East   | 1.46                                         | 0.12                | Yes                     | Yes                    | 5.80                                                    | 0.45 |
|                                                      | South  | 0.48                                         | -                   | Yes                     | Yes                    | 5.80                                                    | 0.45 |
|                                                      | West   | 0.48                                         | -                   | Yes                     | Yes                    | 5.80                                                    | 0.45 |
| G – Retail (W<br>Block)                              | North  | 2.08                                         | 0.10                | No                      | Yes                    | 5.00                                                    | 0.44 |
|                                                      | East   | 1.91                                         | 0.08                | Yes                     | Yes                    | 5.00                                                    | 0.44 |
|                                                      | South  | 2.51                                         | 0.22                | No                      | Yes                    | 5.00                                                    | 0.44 |
|                                                      | West   | 1.26                                         | 0.15                | No                      | Yes                    | 5.00                                                    | 0.44 |
| G – Retail (N)                                       | North  | 0.95                                         | 0.02                | Yes                     | Yes                    | 5.00                                                    | 0.44 |
|                                                      | East   | 0.48                                         | -                   | Yes                     | Yes                    | 5.00                                                    | 0.44 |
|                                                      | South  | 4.27                                         | 0.13                | No                      | Yes                    | 5.00                                                    | 0.44 |
|                                                      | West   | 0.48                                         | -                   | Yes                     | Yes                    | 5.00                                                    | 0.44 |
| G – Retail (S)                                       | North  | 2.26                                         | 0.12                | No                      | Yes                    | 2.60                                                    | 0.41 |
|                                                      | East   | 1.88                                         | 0.12                | Yes                     | Yes                    | 2.60                                                    | 0.41 |
|                                                      | South  | 1.27                                         | 0.20                | No                      | Yes                    | 2.60                                                    | 0.41 |
|                                                      | West   | 2.03                                         | 0.12                | No                      | Yes                    | 2.60                                                    | 0.41 |
| G – Retail<br>(NE Block)                             | North  | 1.49                                         | 0.21                | No                      | Yes                    | 3.70                                                    | 0.33 |
|                                                      | East   | 2.21                                         | 0.10                | No                      | Yes                    | 3.70                                                    | 0.33 |
|                                                      | South  | 2.57                                         | 0.10                | No                      | Yes                    | 3.70                                                    | 0.33 |
|                                                      | West   | 1.84                                         | 0.10                | Yes                     | Yes                    | 3.70                                                    | 0.33 |
| G – Retail (W<br>& SW Block)                         | North  | 4.95                                         | 0.18                | No                      | Yes                    | 5.80                                                    | 0.40 |
|                                                      | East   | 0.48                                         | -                   | Yes                     | Yes                    | 5.80                                                    | 0.40 |
|                                                      | South  | 1.42                                         | 0.34                | No                      | Yes                    | 5.80                                                    | 0.40 |
|                                                      | West   | 4.05                                         | 0.12                | No                      | Yes                    | 5.80                                                    | 0.40 |



| Description           | Facade | Wall-<br>Glazing<br>U-<br>Value <sup>1</sup> | Solar<br>Admittance | Compliance <sup>2</sup> |                        | Recommended<br>Average <sup>3</sup> – Glazing<br>System |      |
|-----------------------|--------|----------------------------------------------|---------------------|-------------------------|------------------------|---------------------------------------------------------|------|
|                       |        |                                              |                     | Method<br>1             | Method 2<br>(Combined) | U-Value                                                 | SHGC |
| G - Hotel             | North  | 0.48                                         | -                   | Yes                     | Yes                    | 1.90                                                    | 0.20 |
|                       | East   | 0.91                                         | 0.04                | Yes                     | Yes                    | 1.90                                                    | 0.20 |
|                       | South  | 1.22                                         | 0.08                | No                      | Yes                    | 1.90                                                    | 0.20 |
|                       | West   | 1.08                                         | 0.06                | Yes                     | Yes                    | 1.90                                                    | 0.20 |
| UG – Retail<br>(NW-W) | North  | 1.83                                         | 0.10                | Yes                     | Yes                    | 3.70                                                    | 0.40 |
|                       | East   | 2.61                                         | 0.09                | No                      | Yes                    | 3.70                                                    | 0.40 |
|                       | South  | 1.81                                         | 0.09                | Yes                     | Yes                    | 3.70                                                    | 0.40 |
|                       | West   | 1.47                                         | 0.10                | Yes                     | Yes                    | 3.70                                                    | 0.40 |
| UG – Retail<br>(NW-N) | North  | 2.13                                         | 0.10                | No                      | Yes                    | 3.70                                                    | 0.40 |
|                       | East   | 1.55                                         | 0.21                | No                      | Yes                    | 3.70                                                    | 0.40 |
|                       | South  | 2.14                                         | 0.09                | No                      | Yes                    | 3.70                                                    | 0.40 |
|                       | West   | 1.40                                         | 0.09                | Yes                     | Yes                    | 3.70                                                    | 0.40 |
| UG – Retail<br>(W)    | North  | 1.95                                         | 0.09                | Yes                     | Yes                    | 2.70                                                    | 0.40 |
|                       | East   | 1.95                                         | 0.09                | Yes                     | Yes                    | 2.70                                                    | 0.40 |
|                       | South  | 1.95                                         | 0.09                | Yes                     | Yes                    | 2.70                                                    | 0.40 |
|                       | West   | 1.95                                         | 0.10                | Yes                     | Yes                    | 2.70                                                    | 0.40 |
| UG – Retail<br>(SW)   | North  | 2.61                                         | 0.09                | No                      | Yes                    | 3.70                                                    | 0.40 |
|                       | East   | 1.66                                         | 0.09                | Yes                     | Yes                    | 3.70                                                    | 0.40 |
|                       | South  | 0.68                                         | 0.20                | No                      | Yes                    | 3.70                                                    | 0.40 |
|                       | West   | 1.41                                         | 0.10                | Yes                     | Yes                    | 3.70                                                    | 0.40 |
| UG – Retail<br>(N)    | North  | 0.48                                         | -                   | Yes                     | Yes                    | 5.00                                                    | 0.44 |
|                       | East   | 0.48                                         | -                   | Yes                     | Yes                    | 5.00                                                    | 0.44 |
|                       | South  | 4.27                                         | 0.13                | No                      | Yes                    | 5.00                                                    | 0.44 |
|                       | West   | 0.48                                         | -                   | Yes                     | Yes                    | 5.00                                                    | 0.44 |
| UG – Retail<br>(S)    | North  | 2.60                                         | 0.12                | No                      | Yes                    | 3.00                                                    | 0.41 |
|                       | East   | 0.48                                         | -                   | Yes                     | Yes                    | 3.00                                                    | 0.41 |
|                       | South  | 0.48                                         | -                   | Yes                     | Yes                    | 3.00                                                    | 0.41 |
|                       | West   | 2.60                                         | 0.12                | No                      | Yes                    | 3.00                                                    | 0.41 |
| UG – Retail<br>(NE)   | North  | 1.40                                         | 0.11                | Yes                     | Yes                    | 3.70                                                    | 0.38 |
|                       | East   | 1.39                                         | 0.20                | No                      | Yes                    | 3.70                                                    | 0.38 |
|                       | South  | 2.40                                         | 0.11                | No                      | Yes                    | 3.70                                                    | 0.38 |
|                       | West   | 1.58                                         | 0.13                | No                      | Yes                    | 3.70                                                    | 0.38 |



| Description                         | Facade | Wall-<br>Glazing<br>U-<br>Value <sup>1</sup> | Solar<br>Admittance | Compliance <sup>2</sup> |                        | Recommended<br>Average <sup>3</sup> – Glazing<br>System |      |
|-------------------------------------|--------|----------------------------------------------|---------------------|-------------------------|------------------------|---------------------------------------------------------|------|
|                                     |        |                                              |                     | Method<br>1             | Method 2<br>(Combined) | U-Value                                                 | SHGC |
| UG – Retail<br>(SE)                 | North  | 2.64                                         | 0.08                | No                      | Yes                    | 3.70                                                    | 0.28 |
|                                     | East   | 1.28                                         | 0.15                | No                      | Yes                    | 3.70                                                    | 0.28 |
|                                     | South  | 1.39                                         | 0.24                | No                      | Yes                    | 3.70                                                    | 0.28 |
|                                     | West   | 1.23                                         | 0.12                | Yes                     | Yes                    | 3.70                                                    | 0.28 |
| UG - Hotel                          | North  | 0.88                                         | 0.04                | Yes                     | Yes                    | 1.90                                                    | 0.20 |
|                                     | East   | 0.99                                         | 0.10                | No                      | Yes                    | 1.90                                                    | 0.20 |
|                                     | South  | 1.42                                         | 0.08                | No                      | Yes                    | 1.90                                                    | 0.20 |
|                                     | West   | 0.82                                         | 0.04                | Yes                     | Yes                    | 1.90                                                    | 0.20 |
| 1F - Hotel                          | North  | 1.77                                         | 0.05                | No                      | Yes                    | 1.90                                                    | 0.16 |
|                                     | East   | 1.66                                         | 0.08                | No                      | Yes                    | 1.90                                                    | 0.16 |
|                                     | South  | 0.67                                         | 0.01                | Yes                     | Yes                    | 1.90                                                    | 0.16 |
|                                     | West   | 1.66                                         | 0.08                | No                      | Yes                    | 1.90                                                    | 0.16 |
| 1F – Retail<br>(NE)                 | North  | 0.48                                         | -                   | Yes                     | Yes                    | 5.00                                                    | 0.44 |
|                                     | East   | 0.48                                         | -                   | Yes                     | Yes                    | 5.00                                                    | 0.44 |
|                                     | South  | 4.28                                         | 0.13                | No                      | Yes                    | 5.00                                                    | 0.44 |
|                                     | West   | 0.48                                         | -                   | Yes                     | Yes                    | 5.00                                                    | 0.44 |
| 1F – Retail<br>(SE)                 | North  | 2.58                                         | 0.12                | No                      | Yes                    | 3.50                                                    | 0.21 |
|                                     | East   | 1.16                                         | 0.11                | Yes                     | Yes                    | 3.50                                                    | 0.21 |
|                                     | South  | 1.65                                         | 0.13                | Yes                     | Yes                    | 3.50                                                    | 0.21 |
|                                     | West   | 1.71                                         | 0.08                | Yes                     | Yes                    | 3.50                                                    | 0.21 |
| 1F –<br>Entertainment<br>(Class 9b) | North  | 2.60                                         | 0.18                | No                      | Yes                    | 2.70                                                    | 0.19 |
|                                     | East   | 0.79                                         | 0.10                | Yes                     | Yes                    | 2.70                                                    | 0.19 |
|                                     | South  | 1.51                                         | 0.06                | Yes                     | Yes                    | 2.70                                                    | 0.19 |
|                                     | West   | 1.71                                         | 0.08                | No                      | Yes                    | 2.70                                                    | 0.19 |
| 1F – Fitness<br>(Class 9b)          | North  | 3.02                                         | 0.10                | No                      | Yes                    | 3.50                                                    | 0.33 |
|                                     | East   | 0.48                                         | -                   | Yes                     | Yes                    | 3.50                                                    | 0.33 |
|                                     | South  | 2.13                                         | 0.18                | No                      | Yes                    | 3.50                                                    | 0.33 |
|                                     | West   | 0.48                                         | -                   | Yes                     | Yes                    | 3.50                                                    | 0.33 |
| 1F –<br>Childcare<br>(Class 9b)     | North  | 1.98                                         | 0.09                | Yes                     | Yes                    | 3.00                                                    | 0.28 |
|                                     | East   | 1.31                                         | 0.24                | No                      | Yes                    | 3.00                                                    | 0.28 |
|                                     | South  | 2.60                                         | 0.08                | No                      | Yes                    | 3.00                                                    | 0.28 |
|                                     | West   | -                                            | -                   | Yes                     | Yes                    | 3.00                                                    | 0.28 |





| Description          | Facade | Wall-<br>Glazing<br>U-<br>Value <sup>1</sup> | Solar<br>Admittance | Compliance <sup>2</sup> |                        | Recommended<br>Average <sup>3</sup> – Glazing<br>System |      |
|----------------------|--------|----------------------------------------------|---------------------|-------------------------|------------------------|---------------------------------------------------------|------|
|                      |        |                                              |                     | Method<br>1             | Method 2<br>(Combined) | U-Value                                                 | SHGC |
| 2F to 10F –<br>Hotel | North  | 1.43                                         | 0.10                | No                      | Yes                    | 1.50                                                    | 0.16 |
|                      | East   | 1.06                                         | 0.07                | Yes                     | Yes                    | 1.50                                                    | 0.16 |
|                      | South  | 0.73                                         | 0.04                | Yes                     | Yes                    | 1.50                                                    | 0.16 |
|                      | West   | 1.06                                         | 0.07                | Yes                     | Yes                    | 1.50                                                    | 0.16 |
| 11F – Hotel          | North  | 0.48                                         | -                   | Yes                     | Yes                    | 1.50                                                    | 0.16 |
|                      | East   | 1.19                                         | 0.08                | No                      | Yes                    | 1.50                                                    | 0.16 |
|                      | South  | 0.73                                         | 0.04                | Yes                     | Yes                    | 1.50                                                    | 0.16 |
|                      | West   | 1.19                                         | 0.08                | No                      | Yes                    | 1.50                                                    | 0.16 |

**Table 5 R-value of Proposed Wall System**

| Proposed<br>Wall<br>System                   | Proposed<br>Average Wall<br>R-Value <sup>4</sup> | Solar<br>Adsorption | Compliance                          | Recommendations                                                                                   |
|----------------------------------------------|--------------------------------------------------|---------------------|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Light Weight<br>Cladding<br>External<br>Wall | R0.08                                            | 0.50                | Compliance<br>Readily<br>Achievable | Additional insulation is<br>required to meet the<br>prescribed average total R<br>value of R2.08. |
| Hebel<br>Internal Wall                       | R0.70                                            | 0.50                | Compliance<br>Readily<br>Achievable | Additional insulation is<br>required to meet the<br>prescribed average total R<br>value of R2.08. |

Wall-glazing calculations summary reports are shown in **Appendix C**.

Note:

U-value for the wall glazing system including Aluminium frame.

<sup>2</sup> Nominated compliance pathway: Either method can achieve compliance

<sup>3</sup> A JV3 Alternative Solution offers opportunities to reduce/remove higher glazing options finish.

### 3.6 J4D7 – Floors

A floor must achieve the total R-value specified in Table J4D7.



**Table 6 Copy of J4D7 Floors – Minimum Total R-Value**

**Table J4D7: Floors – Minimum Total R-Value**

| Location                                                          | Climate zone 1—<br>upwards heat flow | Climate zones 2 and 3 —<br>upwards and downwards<br>heat flow | Climate zones 4, 5,<br>6 and 7 —<br>downwards heat<br>flow | Climate zone 8 —<br>downwards heat flow |
|-------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|
| A floor<br>without an in-<br>slab heating<br>or cooling<br>system | 2.0                                  | 2.0                                                           | 2.0                                                        | 3.5                                     |
| A floor with<br>an in-slab<br>heating or<br>cooling<br>system     | 3.25                                 | 3.25                                                          | 3.25                                                       | 4.75                                    |

**Note to Table J1.6:** For the purpose of calculating the Total R-Value of a floor, the sub-floor and soil R-Value must be calculated in accordance with Specification 39 or Section 3.5 of CIBSE Guide A.

The proposed floor system is as described below:

- Suspended concrete floor

**Table 7** Summarises the R-values of the proposed floor systems, and the recommendations to achieve compliance.

**Table 7 Floor Systems Summary and Recommendations**

| Proposed System         | R-Value | R-Value Requirement | Compliance                    | Recommendations                                                                        |
|-------------------------|---------|---------------------|-------------------------------|----------------------------------------------------------------------------------------|
| Suspended Concrete Slab | 0.3     | 2.0                 | Compliance Readily Achievable | Additional insulation is required to meet the prescribed average total R value of R2.0 |

Detailed mark ups of required floor insulation are shown in **Appendix B**.



## 4.0 Part J5 – Building Sealing

Part J5 of the 2022 NCC contains the requirements of the Deemed-to-Satisfy compliance for building sealing. The purpose of this subsection is to ensure that additional heating and cooling loads will not be introduced through building leakage.

### 4.1 J5D2 – Application

Building sealing is applicable to the conditioned spaces within the building.

### 4.2 J5D3 – Chimneys and Flues

The chimney or flue of an open solid fuel burning appliance must be provided with a damper or flap that can be closed to seal the chimney or flue.

### 4.3 J5D4 – Roof Lights

No roof lights have been provided to the proposed development; therefore, this section is not applicable.

### 4.4 J5D5 – External Windows and Doors

The Part J5D5 of the NCC Section J requirements will apply to the development.

Part J5D5 of the 2022 NCC requires that a seal to restrict air infiltration must be fitted to each edge of an external door, openable external window or the like when serving a conditioned space. This requirement does not apply to:

- a window complying with AS 2047; or
- a fire door or smoke door; or
- a roller shutter door, roller shutter grille or other security door or device installed only for out-of-hours security.

The seal may be a foam or rubber compressible strip, fibrous seal or the like.

A seal to restrict air infiltration—

- for the bottom edge of a door, must be a draft protection device; and
- for the other edges of a door or the edges of an openable window or other such opening, may be a foam or rubber compression strip, fibrous seal or the like.

An entrance to a building, if leading to a conditioned space must have an airlock, self-closing door, rapid roller door, revolving door or the like, other than—

- where the conditioned space has a floor area of not more than 50 m<sup>2</sup>; or
- where a café, restaurant, open front shop or the like has—
  - a 3 m deep un-conditioned zone between the main entrance, including an open front, and the conditioned space; and
  - at all other entrances to the café, restaurant, open front shop or the like, self-closing doors.

A loading dock entrance, if leading to a conditioned space, must be fitted with a rapid roller door or the like.



## **4.5 J5D6 – Exhaust fans**

An exhaust fan must be fitted with a sealing device such as a self-closing damper or the like when serving—

- a conditioned space; or
- a habitable room in climate zones 4, 5, 6, 7 or 8.

## **4.6 J5D7 – Construction of ceilings, walls and floors**

Ceilings, walls, floors and any opening such as a window frame, door frame, roof light frame or the like must be constructed to minimise air leakage in accordance with (2)—

- when forming part of the envelope; or
- in climate zones 4, 5, 6, 7 or 8.

Construction required by the above statement must be—

- enclosed by internal lining systems that are close fitting at ceiling, wall and floor junctions; or
- sealed at junctions and penetrations with—
  - close fitting architrave, skirting or cornice; or
  - expanding foam, rubber compressible strip, caulking or the like.

## **4.7 J5D8 – Evaporative coolers**

An evaporative cooler must be fitted with a self-closing damper or the like—

- (i) when serving a heated space; or
- (ii) in climate zones 4, 5, 6, 7 or 8.



## 5.0 Part J6 – Air Conditioning and Ventilation Systems

Part J6 of the 2022 NCC contains the requirements of the Deemed-to-Satisfy compliance of a building's air conditioning and ventilation systems. The purpose of this subsection is to ensure that conditioned air (when required) is generated, controlled and supplied to the building in an energy efficient manner. This subsection also ensures that ventilation and exhaust systems are efficient, while also keeping the wasted conditioned air to a minimum.

The mechanical services engineer should ensure that the proposed air-conditioning systems for the development comply with the following sections.

### 5.1 J6D2 – Application

The Deemed-to-Satisfy Provisions of this Part do not apply to a Class 8 electricity network substation.

### 5.2 J6D3 – Air Conditioning System Control

The air-conditioning unit or system serving the conditioned spaces is to comply with the following performance requirements.

An air-conditioning unit or system must:

- Be capable of being deactivated when the building served is not occupied; and
  - Thermostatically control the temperature of each zone or area when serving more than one zone
  - not control the temperature by mixing actively heated air and actively cooled air; and
  - limit reheating to not more than—
    - for a fixed supply air rate, a 7.5 K rise in temperature; and
    - for a variable supply air rate, a 7.5 K rise in temperature at the nominal supply air rate but increased or decreased at the same rate that the supply air rate is respectively decreased or increased; and
- Provides the required mechanical ventilation, other than in climate zone 1 or where dehumidification control is needed, must have an outdoor air economy cycle if the total air flow rate of any airside component of an air-conditioning system is greater than or equal to the figures in Table 8.
- When two or more air-conditioning systems serve the same space, they must use control sequences that prevent the systems from operating in opposing heating and cooling modes.
- Contains more than one water heater, chiller or coil, must be capable of stopping the flow of water to those not operating; and with an airflow of more than 1000 L/s, must have a variable speed fan when its supply air quantity is capable of being varied;
- must have the ability to use direct signals from the control components responsible for the delivery of comfort conditions in the building to regulate the operation of central plant; and





- must have a control dead band of not less than 2°C, except where a smaller range is required for specialised applications; and
- must be provided with balancing dampers and balancing valves, as required to meet the needs of the system at its maximum operating condition, that ensure the maximum design air or fluid flow is achieved but not exceeded by more than 15% above design at each—
  - component; or
  - group of components operating under a common control in a system containing multiple components; and
- must ensure that each independently operating space of more than 1 000 m<sup>2</sup> and every separate floor of the building has provision to terminate airflow independently of the remainder of the system sufficient to allow for different operating times; and
- must have automatic variable temperature operation of heated water and chilled water circuits; and
- when deactivated, must close any motorised outdoor air or return air damper that is not otherwise being actively controlled.

Time switches — the following applies:

- A time switch must be provided to control—
  - an air-conditioning system of more than 2 kW<sub>r</sub>; and
  - a heater of more than 1 kW heating used for air-conditioning.
- The time switch must be capable of switching electric power on and off at variable pre-programmed times and on variable pre-programmed days.

**Table 8 Copy of Table J6D3 - Requirement for an outdoor air economy cycle**

Table J6D3: Requirement for an outdoor air economy cycle

| Climate zone | Total air flow rate requiring an economy cycle (L/s) |
|--------------|------------------------------------------------------|
| 2            | 9000                                                 |
| 3            | 7500                                                 |
| 4            | 3500                                                 |
| 5            | 3000                                                 |
| 6            | 2000                                                 |
| 7            | 2500                                                 |
| 8            | 4000                                                 |

### 5.3 J6D4 – Mechanical Ventilation System Control

This subsection of J6D4 applies to all components of the proposed development as all spaces are to be mechanically ventilated. The mechanical ventilation systems are to comply with the following performance requirements.

A mechanical ventilation system must:

- Be capable of being deactivated when the building or part of the building served by that system is not occupied; and
- When serving a conditioned space-



- where specified in Table J6D4, have—
  - an energy reclaiming system that preconditions *outdoor air* at a minimum sensible heat transfer effectiveness of 60%; or
  - demand control ventilation in accordance with AS 1668.2 if appropriate to the application; and
- not exceed the minimum outdoor air quantity required by Part F6 by more than 20%, except where—
  - additional unconditioned outdoor air is supplied for free cooling; or
  - additional mechanical ventilation is needed to balance the required exhaust or process exhaust; or
  - an energy reclaiming system preconditions all the outdoor air; and
- for an airflow of more than 1000 L/s, have a variable speed fan unless the downstream airflow is required by Part F6 to be constant.

**Table 9 Copy of Table J6D4 Required outdoor air treatment**

Table J6D4: Required outdoor air treatment

| <i>Climate zone</i> | <i>Outdoor air flow (L/s)</i> | <i>Required measure</i>                        |
|---------------------|-------------------------------|------------------------------------------------|
| 1                   | >500                          | Modulating control                             |
| 2                   | Not applicable                | No <i>required</i> measure                     |
| 3                   | >1000                         | Modulating control                             |
| 4 and 6             | >500                          | Modulating control or energy reclaiming system |
| 5                   | >1000                         | Modulating control or energy reclaiming system |
| 7 and 8             | >250                          | Modulating control or energy reclaiming system |

## 5.4 J6D4 – Time Switch

Part J6D4 applies to the proposed development where applicable.

- A time switch must be provided to a mechanical ventilation system with an air flow rate of more than 1000 L/s.
- The time switch must be capable of switching electric power on and off at variable pre-programmed times and on variable pre-programmed days.
- The above requirements do not apply to—
  - a mechanical ventilation system that serves—
    - only one sole-occupancy unit in a Class 2, 3 or 9c building; or
    - a Class 4 part of a building; or
  - a building where mechanical ventilation is needed for 24-hour occupancy.



## 5.5 J6D5 – Fan and Duct Systems

There are two options to demonstrate that a fan system that forms part of an air-conditioning system is compliant with J6D5.

Fans:

- The first option is to demonstrate that each of the individual components of a fan system are individually more efficient than the values specified in J6D5.
- The second option is to demonstrate that the fan system as a whole is more efficient than a system that is designed meeting the individual component requirements.

Ductwork:

- The pressure drop in the index run across all straight sections of rigid ductwork and all sections of flexible ductwork must not exceed 1 Pa/m when averaged over the entire length of straight rigid duct and flexible duct. The pressure drop of flexible ductwork sections may be calculated as if the flexible ductwork is laid straight.
- Flexible ductwork must not account for more than 6 m in length in any duct run.
- The upstream connection to ductwork bends, elbows and tees in the index run must have an equivalent diameter to the connected duct.
- Turning vanes must be included in all rigid ductwork elbows of 90° or more acute than 90° in the index run except where—
  - the inclusion of turning vanes presents a fouling risk; or
  - a long radius bend in accordance with AS 4254.2 is used.

Ductwork components in the index run:

- the ductwork components need to be more efficient than the values specified in J6D5.

## 5.6 J6D6 – Ductwork Insulation

Ductwork and fittings in an air-conditioning system must be provided with insulation—

- complying with AS/NZS 4859.1; and
- having an insulation R-Value greater than or equal to—
  - for flexible ductwork, 1.0; or
  - for cushion boxes, that of the connecting ductwork; or
  - that specified in Table J6D6.

Insulation must—

- be protected against the effects of weather and sunlight; and



- be installed so that it abuts adjoining insulation to form a continuous barrier; and maintains its position and thickness, other than at flanges and supports.
- when conveying cooled air—
  - be protected by a vapour barrier on the outside of the insulation; and
  - where the vapour barrier is a membrane, be installed so that adjoining sheets of the membrane—
    - overlap by at least 50 mm; and
    - are bonded or taped together.
- The requirements of above statements do not apply to—
  - ductwork and fittings located within the only or last room served by the system; or
  - fittings that form part of the interface with the conditioned space; or
  - return air ductwork in, or passing through, a conditioned space; or
  - ductwork for outdoor air and exhaust air associated with an air-conditioning system; or
  - the floor of an in-situ air-handling unit; or
  - packaged air conditioners, split systems, and variable refrigerant flow air-conditioning equipment complying with MEPS; or
  - flexible fan connections.
- For the purposes of the above statements, fittings—
  - include non-active components of a ductwork system such as cushion boxes; and
  - exclude active components such as air-handling unit components.

**Table 10 Copy of Table J6D6 Ductwork and fittings – Minimum insulation R-Value**

**Table J6D6: Ductwork and fittings – Minimum insulation R-Value**

| Location of ductwork and fittings | Climate zone 1, 2, 3, 4, 5, 6 or 7 | Climate zone 8 |
|-----------------------------------|------------------------------------|----------------|
| Within a conditioned space        | 1.2                                | 2.0            |
| Where exposed to direct sunlight  | 3.0                                | 3.0            |
| All other locations               | 2.0                                | 3.0            |



## 5.7 J6D7 – Ductwork sealing

Ductwork in an air-conditioning system with a capacity of 3000 L/s or greater, not located within the only or last room served by the system, must be sealed against air loss in accordance with the duct sealing requirements of AS 4254.1 and AS 4254.2 for the static pressure in the system.

## 5.8 J6D8 – Pump Systems

Pumps and pipework that form part of an air-conditioning system must either—

- separately comply with the below statements; or
- achieve a pump motor power per unit of flowrate lower than the pump motor power per unit of flowrate achieved when applying the below statements together.

**Circulator pumps** — A glandless impeller pump, with a rated hydraulic power output of less than 2.5 kW and that is used in closed loop systems must have an energy efficiency index (EEI) not more than 0.27 calculated in accordance with European Union Commission Regulation No. 622/2012.

**Other pumps** — Pumps that are in accordance with Articles 1 and 2 of European Union Commission Regulation No. 547/2012 must have a minimum efficiency index (MEI) of 0.4 or more when calculated in accordance with European Union Commission Regulation No. 547/2012.

**Pipework** — Straight segments of pipework along the index run, forming part of an air-conditioning system—

- in pipework systems that do not have branches and have the same flow rate throughout the entire pipe network, must achieve an average pressure drop of not more than—
  - for constant speed systems, the values nominated in Table J6D8a; or
  - for variable speed systems, the values nominated in Table J6D8b; or
- in any other pipework system, must achieve an average pressure drop of not more than—
  - for constant speed systems, the values nominated in Table J6D8c; or
  - for variable speed systems, the values nominated in Table J6D8d.

The requirements of the pipework section do not apply—

- to valves and fittings; or
- where the smallest pipe size compliant with the pipework section results in a velocity of 0.7 m/s or less at design flow.



**Table 11 Copy of J6D8a Maximum pipework pressure drop – Non-distributive constant speed systems**

**Table J6D8a: Maximum pipework pressure drop – Non-distributive constant speed systems**

| Nominal pipe diameter (mm) | Maximum pressure drop in systems operating 5000 hours/annum or less (Pa/m) | Maximum pressure drop in systems operating more than 5000 hours/annum (Pa/m) |
|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Not more than 20           | 400                                                                        | 400                                                                          |
| 25                         | 400                                                                        | 400                                                                          |
| 32                         | 400                                                                        | 400                                                                          |

| Nominal pipe diameter (mm) | Maximum pressure drop in systems operating 5000 hours/annum or less (Pa/m) | Maximum pressure drop in systems operating more than 5000 hours/annum (Pa/m) |
|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 40                         | 400                                                                        | 400                                                                          |
| 50                         | 400                                                                        | 350                                                                          |
| 65                         | 400                                                                        | 350                                                                          |
| 80                         | 400                                                                        | 350                                                                          |
| 100                        | 400                                                                        | 200                                                                          |
| 125                        | 400                                                                        | 200                                                                          |
| 150 or more                | 400                                                                        | 200                                                                          |

**Table 12 Copy of J6D8b Maximum pipework pressure drop – Non-distributive variable speed systems**

**Table J6D8b: Maximum pipework pressure drop – Non-distributive variable speed systems**

| Nominal pipe diameter (mm) | Maximum pressure drop in systems operating 5000 hours/annum or less (Pa/m) | Maximum pressure drop in systems operating more than 5000 hours/annum (Pa/m) |
|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Not more than 20           | 400                                                                        | 400                                                                          |
| 25                         | 400                                                                        | 400                                                                          |
| 32                         | 400                                                                        | 400                                                                          |
| 40                         | 400                                                                        | 400                                                                          |
| 50                         | 400                                                                        | 400                                                                          |
| 65                         | 400                                                                        | 400                                                                          |
| 80                         | 400                                                                        | 400                                                                          |
| 100                        | 400                                                                        | 300                                                                          |
| 125                        | 400                                                                        | 300                                                                          |
| 150 or more                | 400                                                                        | 300                                                                          |





**Table 13 Copy of J6D8c Maximum pipework pressure drop – Distributive constant speed systems**

**Table J6D8c: Maximum pipework pressure drop – Distributive constant speed systems**

| Nominal pipe diameter (mm) | Maximum pressure drop in systems operating 2000 hours/annum or less (Pa/m) | Maximum pressure drop in systems operating between 2000 hours/annum and 5000 hrs/yr (Pa/m) | Maximum pressure drop in systems operating more than 5000 hours/annum (Pa/m) |
|----------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Not more than 20           | 400                                                                        | 300                                                                                        | 150                                                                          |
| 25                         | 400                                                                        | 220                                                                                        | 100                                                                          |
| 32                         | 400                                                                        | 220                                                                                        | 100                                                                          |
| 40                         | 400                                                                        | 220                                                                                        | 100                                                                          |
| 50                         | 400                                                                        | 220                                                                                        | 100                                                                          |
| 65                         | 400                                                                        | 400                                                                                        | 170                                                                          |
| 80                         | 400                                                                        | 400                                                                                        | 170                                                                          |
| 100                        | 400                                                                        | 400                                                                                        | 170                                                                          |
| 125                        | 400                                                                        | 400                                                                                        | 170                                                                          |
| 150 or more                | 400                                                                        | 400                                                                                        | 170                                                                          |

**Table 14 Copy of J6D8d Maximum pipework pressure drop – Distributive variable speed systems**

**Table J6D8d: Maximum pipework pressure drop – Distributive variable speed systems**

| Nominal pipe diameter (mm) | Maximum pressure drop in systems operating 5000 hours/annum or less (Pa/m) | Maximum pressure drop in systems operating more than 5000 hours/annum (Pa/m) |
|----------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Not more than 20           | 400                                                                        | 250                                                                          |
| 25                         | 400                                                                        | 180                                                                          |
| 32                         | 400                                                                        | 180                                                                          |
| 40                         | 400                                                                        | 180                                                                          |
| 50                         | 400                                                                        | 180                                                                          |
| 65                         | 400                                                                        | 300                                                                          |
| 80                         | 400                                                                        | 300                                                                          |
| 100                        | 400                                                                        | 300                                                                          |
| 125                        | 400                                                                        | 300                                                                          |
| 150 or more                | 400                                                                        | 300                                                                          |

## 5.9 J6D9 – Pipework insulation

Piping, vessels, heat exchangers and tanks containing heating or cooling fluid, where the fluid is held at a heated or cooled temperature, that are part of an air-conditioning system, other than in appliances covered by MEPS, must be provided with insulation—

- complying with AS/NZS 4859.1
- for piping of heating and cooling fluids, having an insulation R-Value in accordance with Table J6D9a; and
- for vessels, heat exchangers or tanks, having an insulation R-Value in accordance with Table J6D9b; and



- for refill or pressure relief piping, having an insulation R-Value equal to the required insulation R-Value of the connected pipe, vessel or tank within 500 mm of the connection.

Insulation must—

- be protected against the effects of weather and sunlight; and
- be able to withstand the temperatures within the piping, vessel, heat exchanger or tank.

Insulation provided to piping, vessels, heat exchangers or tanks containing cooling fluid must be protected by a vapour barrier on the outside of the insulation.

The requirements of the above statements do not apply to piping, vessels or heat exchangers—

- located within the only or last room served by the system and downstream of the control device for the regulation of heating or cooling service to that room; or
- encased within a concrete slab or panel which is part of a heating or cooling system; or
- supplied as an integral part of a chiller, boiler or unitary air-conditioner complying with the requirements of J6D10, J6D11 and J6D12; or
- inside an air-handling unit, fan-coil unit, or the like.

**Table 15 Copy of Table J6D9a Piping – Minimum Insulation R value**

Table J6D9a: Piping — Minimum insulation R-Value

| Fluid temperature                | Minimum insulation <i>R-Value</i> nominal pipe diameter ≤ 40 mm | Minimum insulation <i>R-Value</i> — nominal pipe diameter > 40 mm and ≤ 80 mm | Minimum insulation <i>R-Value</i> — nominal pipe diameter between > 80 mm and ≤ 150 mm | Minimum insulation <i>R-Value</i> — nominal pipe diameter > 150 mm |
|----------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Low temperature chilled — ≤ 2°C  | 1.3                                                             | 1.7                                                                           | 2.0                                                                                    | 2.7                                                                |
| Chilled — > 2°C but ≤ 20°C       | 1.0                                                             | 1.5                                                                           | 2.0                                                                                    | 2.0                                                                |
| Heated — > 30°C but ≤ 85°C       | 1.7                                                             | 1.7                                                                           | 1.7                                                                                    | 1.7                                                                |
| High Temperature heated — > 85°C | 2.7                                                             | 2.7                                                                           | 2.7                                                                                    | 2.7                                                                |



**Table 16 Copy of Table J6D9b Vessels, Heat Exchangers and Tanks — Minimum Insulation R-Value**

**Table J6D9b: Vessels, heat exchangers and tanks — Minimum insulation R-Value**

| Fluid temperature range                                       | Minimum insulation <i>R-Value</i> |
|---------------------------------------------------------------|-----------------------------------|
| Low temperature chilled — $\leq 2^{\circ}\text{C}$            | 2.7                               |
| Chilled — $> 2^{\circ}\text{C}$ but $\leq 20^{\circ}\text{C}$ | 1.8                               |
| Heated — $> 30^{\circ}\text{C}$ but $\leq 85^{\circ}\text{C}$ | 3.0                               |
| High temperature heated — $> 85^{\circ}\text{C}$              | 3.0                               |

## 5.10 J6D10 – Space Heating

A heater used for air-conditioning or as part of an air-conditioning system must be a solar heater; or a gas heater; or a heat pump; or a heater using reclaimed heat from another process such as reject heat from a refrigeration plant; or an electric heater if —

- the heating capacity is not more than—
  - 10 W/m<sup>2</sup> of the floor area of the conditioned space in climate zone 1; or
  - 40 W/m<sup>2</sup> of the floor area of the conditioned space in climate zone 2; or
  - the value specified in Table J6D10 where reticulated gas is not available at the allotment boundary; or
- the annual energy consumption for heating is not more than 15 kWh/m<sup>2</sup> of the floor area of the conditioned space in climate zones 1, 2, 3, 4 and 5; or

any combination of a solar heater to an electric heater.

- An electric heater may be used for heating a bathroom in a Class 2, 3, 9a or 9c building if the heating capacity is not more than 1.2 kW and the heater has a timer.
- A fixed heating or cooling appliance that moderates the temperature of an outdoor space must be configured to automatically shut down when—
  - there are no occupants in the space served; or
  - a period of one hour has elapsed since the last activation of the heater; or
  - the space served has reached the design temperature.
- A gas water heater, that is used as part of an air-conditioning system, must—
  - if rated to consume 500 MJ/hour of gas or less, achieve a minimum gross thermal efficiency of 86%; or
  - if rated to consume more than 500 MJ/hour of gas, achieve a minimum gross thermal efficiency of 90%.



**Table 17 Copy of Table J6D10 Maximum electric heating capacity**

**Table J6D10: Maximum electric heating capacity**

| Floor area of the conditioned space | W/m <sup>2</sup> of floor area in climate zone 3 | W/m <sup>2</sup> of floor area in climate zone 4 | W/m <sup>2</sup> of floor area in climate zone 5 | W/m <sup>2</sup> of floor area in climate zone 6 | W/m <sup>2</sup> of floor area in climate zone 7 |
|-------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| ≤ 500 m <sup>2</sup>                | 50                                               | 60                                               | 55                                               | 65                                               | 70                                               |
| > 500 m <sup>2</sup>                | 40                                               | 50                                               | 45                                               | 55                                               | 60                                               |

## 5.11 J6D11 – Refrigerant chillers

An air-conditioning system refrigerant chiller must comply with MEPS and the full load operation energy efficiency ratio and integrated part load energy efficiency ratio in Table J6D11a or Table J6D11b when determined in accordance with AHRI 551/591.

**Table 18 Copy of Table J6D11a Minimum energy efficiency ratio for refrigerant chillers – Option 1**

**Table J6D11a: Minimum energy efficiency ratio for refrigerant chillers – Option 1**

| Chiller type                                                                                                 | Full load operation ( $W_r/W_{\text{input power}}$ ) | Integrated part load ( $W_r/W_{\text{input power}}$ ) |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| Air-cooled chiller with a capacity ≤ 528 kW <sub>r</sub>                                                     | 2.985                                                | 4.048                                                 |
| Air-cooled chiller with a capacity > 528 kW <sub>r</sub>                                                     | 2.985                                                | 4.137                                                 |
| Water-cooled positive displacement chiller with a capacity ≤ 264 kW <sub>r</sub>                             | 4.694                                                | 5.867                                                 |
| Water-cooled positive displacement chiller with a capacity > 264 kW <sub>r</sub> but ≤ 528 kW <sub>r</sub>   | 4.889                                                | 6.286                                                 |
| Water-cooled positive displacement chiller with a capacity > 528 kW <sub>r</sub> but ≤ 1055 kW <sub>r</sub>  | 5.334                                                | 6.519                                                 |
| Water-cooled positive displacement chiller with a capacity > 1055 kW <sub>r</sub> but ≤ 2110 kW <sub>r</sub> | 5.800                                                | 6.770                                                 |
| Water-cooled positive displacement chiller with a capacity > 2110 kW <sub>r</sub>                            | 6.286                                                | 7.041                                                 |
| Water-cooled centrifugal chiller with a capacity ≤ 528 kW <sub>r</sub>                                       | 5.771                                                | 6.401                                                 |
| Water-cooled centrifugal chiller with a capacity > 528 kW <sub>r</sub> but ≤ 1055 kW <sub>r</sub>            | 5.771                                                | 6.519                                                 |
| Water-cooled centrifugal chiller with a capacity > 1055 kW <sub>r</sub> but ≤ 1407 kW <sub>r</sub>           | 6.286                                                | 6.770                                                 |
| Water-cooled centrifugal chiller with a capacity > 1407 kW <sub>r</sub>                                      | 6.286                                                | 7.041                                                 |



**Table 19 Copy of Table J6D11b Minimum energy efficiency ratio for refrigerant chillers – Option 2**

**Table J6D11b: Minimum energy efficiency ratio for refrigerant chillers – Option 2**

| Chiller type                                                                                                        | Full load operation ( $W_r/W_{\text{input power}}$ ) | Integrated part load ( $W_r/W_{\text{input power}}$ ) |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| Air-cooled chiller with a capacity $\leq$ 528 kW <sub>r</sub>                                                       | 2.866                                                | 4.669                                                 |
| Air-cooled chiller with a capacity $>$ 528 kW <sub>r</sub>                                                          | 2.866                                                | 4.758                                                 |
| Water-cooled positive displacement chiller with a capacity $\leq$ 264 kW <sub>r</sub>                               | 4.513                                                | 7.041                                                 |
| Water-cooled positive displacement chiller with a capacity $>$ 264 kW <sub>r</sub> but $\leq$ 528 kW <sub>r</sub>   | 4.694                                                | 7.184                                                 |
| Water-cooled positive displacement chiller with a capacity $>$ 528 kW <sub>r</sub> but $\leq$ 1055 kW <sub>r</sub>  | 5.177                                                | 8.001                                                 |
| Water-cooled positive displacement chiller with a capacity $>$ 1055 kW <sub>r</sub> but $\leq$ 2110 kW <sub>r</sub> | 5.633                                                | 8.586                                                 |
| Water-cooled positive displacement chiller with a capacity $>$ 2110 kW <sub>r</sub>                                 | 6.018                                                | 9.264                                                 |
| Water-cooled centrifugal chiller with a capacity $\leq$ 528 kW <sub>r</sub>                                         | 5.065                                                | 8.001                                                 |
| Water-cooled centrifugal chiller with a capacity $>$ 528 kW <sub>r</sub> but $\leq$ 1055 kW <sub>r</sub>            | 5.544                                                | 8.001                                                 |
| Water-cooled centrifugal chiller with a capacity $>$ 1055 kW <sub>r</sub> but $\leq$ 1407 kW <sub>r</sub>           | 5.917                                                | 9.027                                                 |
| Water-cooled centrifugal chiller with a capacity $>$ 1407 kW <sub>r</sub>                                           | 6.018                                                | 9.264                                                 |

## 5.12 J6D12 – Unitary air-conditioning equipment

Unitary air-conditioning equipment including packaged air-conditioners, split systems, and variable refrigerant flow systems must comply with MEPS and for a capacity greater than or equal to 65 kW<sub>r</sub>—

- where water cooled, have a minimum energy efficiency ratio of 4.0 W<sub>r</sub>/W<sub>input power</sub> for cooling when tested in accordance with AS/NZS 3823.1.2 at test condition T1, where input power includes both compressor and fan input power; or
- where air cooled, have a minimum energy efficiency ratio of 2.9 W<sub>r</sub>/W<sub>input power</sub> for cooling when tested in accordance with AS/NZS 3823.1.2 at test condition T1, where input power includes both compressor and fan input power.

## 5.13 J6D13– Heat rejection equipment

The motor rated power of a fan in a cooling tower, closed circuit cooler or evaporative condenser must not exceed the allowances in Table J6D13.

The fan in an air-cooled condenser must have a motor rated power of not more than 42 W for each kW of heat rejected from the refrigerant, when determined in accordance with AHRI 460 except for—



- a refrigerant chiller in an air-conditioning system that complies with the energy efficiency ratios in J6D11;
- packaged air-conditioners, split systems, and variable refrigerant flow air-conditioning equipment that complies with the energy efficiency ratios in J6D12.

**Table 20 Copy of Table J6D13 Maximum Fan Motor Power — Cooling Towers, Closed Circuit Coolers and Evaporative Condensers**

Table J6D13: Maximum fan motor power – Cooling towers, closed circuit coolers and evaporative condensers

| Type          | Cooling tower maximum fan motor input power (W/kW <sub>rej</sub> ) | Closed circuit cooler maximum fan motor input power (W/kW <sub>rej</sub> ) | Evaporative condenser maximum fan motor input power (W/kW <sub>rej</sub> ) |
|---------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Induced draft | 10.4                                                               | 16.9                                                                       | 11.0                                                                       |
| Forced draft  | 19.5                                                               | Note                                                                       | 11.0                                                                       |





## **6.0 Part J7 – Artificial Lighting and Power**

Part J7 of the 2022 NCC contains the requirements of the Deemed-to-Satisfy compliance of a building's artificial lighting and power. The purpose of this subsection is to ensure that efficient lighting systems are installed to maintain required lighting levels while keeping energy consumption to a minimum. This subsection also ensures that effective lighting control is utilised to reduce wasted energy consumption.

### **6.1 J7D2 – Application**

As stated by the 2022 NCC, Part J7 applies to all classes of buildings with the exception of Class 8 electricity network substation. Part J7 therefore applies to the proposed development.

### **6.2 J7D3 – Artificial Lighting**

In a building other than a sole-occupancy unit of a Class 2 building or a Class 4 part of a building—

- for artificial lighting, the aggregate design illumination power load must not exceed the sum of the allowances obtained by multiplying the area of each space by the maximum illumination power density in Table J7D3a; and
- the aggregate design illumination power load in the above statement is the sum of the design illumination power loads in each of the spaces served; and



**Table 21 Copy of Table J7D3a Maximum illumination power density**

**Table J7D3a: Maximum illumination power density**

| Space                                                                           | Maximum <i>illumination power density</i> (W/m <sup>2</sup> ) |
|---------------------------------------------------------------------------------|---------------------------------------------------------------|
| Auditorium, church and public hall                                              | 8                                                             |
| Board room and conference room                                                  | 5                                                             |
| <i>Carpark</i> - general                                                        | 2                                                             |
| <i>Carpark</i> - entry zone (first 15 m of travel) during the daytime           | 11.5                                                          |
| <i>Carpark</i> - entry zone (next 4 m of travel) during the day                 | 2.5                                                           |
| <i>Carpark</i> - entry zone (first 20 m of travel) during night time            | 2.5                                                           |
| Common rooms, spaces and corridors in a Class 2 building                        | 4.5                                                           |
| Control room, switch room and the like - intermittent monitoring                | 3                                                             |
| Control room, switch room and the like - constant monitoring                    | 4.5                                                           |
| Corridors                                                                       | 5                                                             |
| Courtroom                                                                       | 4.5                                                           |
| Dormitory of a Class 3 building used for sleeping only                          | 3                                                             |
| Dormitory of a Class 3 building used for sleeping and study                     | 4                                                             |
| Entry lobby from outside the building                                           | 9                                                             |
| Health-care - infants' and children's wards and emergency department            | 4                                                             |
| Health-care - examination room                                                  | 4.5                                                           |
| Health-care - examination room in intensive care and high dependency ward       | 6                                                             |
| Health-care - all other <i>patient care areas</i> including wards and corridors | 2.5                                                           |
| Kitchen and food preparation area                                               | 4                                                             |
| Laboratory - artificially lit to an ambient level of 400 lx or more             | 6                                                             |
| Library - stack and shelving area                                               | 2.5                                                           |
| Library - reading room and general areas                                        | 4.5                                                           |
| Lounge area for communal use in a Class 3 or 9c building                        | 4.5                                                           |
| Museum and gallery - circulation, cleaning and service lighting                 | 2.5                                                           |
| Office - artificially lit to an ambient level of 200 lx or more                 | 4.5                                                           |
| Office - artificially lit to an ambient level of less than 200 lx               | 2.5                                                           |



| Space                                                                                                              | Maximum <i>illumination power density</i> (W/m <sup>2</sup> ) |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Plant room where an average of 160 lx vertical illuminance is required on a vertical panel such as in switch rooms | 4                                                             |
| Plant rooms with a horizontal illuminance target of 80 lx                                                          | 2                                                             |
| Restaurant, café, bar, hotel lounge and a space for the serving and consumption of food or drinks                  | 14                                                            |
| Retail space including a museum and gallery whose purpose is the sale of objects                                   | 14                                                            |
| <i>School</i> - general purpose learning areas and tutorial rooms                                                  | 4.5                                                           |
| <i>Sole-occupancy unit</i> of a Class 3 or 9c building                                                             | 5                                                             |
| Storage                                                                                                            | 1.5                                                           |
| Service area, cleaner's room and the like                                                                          | 1.5                                                           |
| Toilet, locker room, staff room, rest room and the like                                                            | 3                                                             |
| Wholesale storage area with a vertical illuminance target of 160 lx                                                | 4                                                             |
| Stairways, including <i>fire-isolated stairways</i>                                                                | 2                                                             |
| Lift cars                                                                                                          | 3                                                             |

The maximum illuminance power density may be increased by multiplying by any adjustment factor provided in NCC Table J7D3b which provides adjustment factors based on methods of controlling the lighting systems, such as motion detectors, dimming systems and room properties.

**Table 22 Copy of Table J7D3b Illumination power density adjustment factor for a control device**

Table J7D3b: Illumination power density adjustment factor for a control device

| Item <small>Notes 1 and 2</small> | Description                                                                                                 | <i>illumination power density</i> adjustment factor |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Motion detector                   | In a toilet or change room, other than a public toilet, in a Class 6 building                               | 0.4                                                 |
| Motion detector                   | Where a group of light fittings serving less than 100 m <sup>2</sup> is controlled by one or more detectors | 0.6                                                 |



| Item <small>Notes 1 and 2</small>                                                                                                                | Description                                                                                                                                                                                                                                                                    | <i>illumination power density</i> adjustment factor                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Motion detector                                                                                                                                  | Where a group of light fittings serving 100 m <sup>2</sup> or more is controlled by one or more detectors                                                                                                                                                                      | 0.7                                                                                                            |
| Programmable dimming system <small>Note 3</small>                                                                                                | Where not less than 75% of the area of a space is controlled by programmable dimmers                                                                                                                                                                                           | 0.85                                                                                                           |
| Fixed dimming <small>Notes 3 and 4</small>                                                                                                       | All fittings with fixed dimming                                                                                                                                                                                                                                                | Whichever is greater of (a) 0.5; or (b) $0.2+0.8L$ where L = the illuminance turnaround for the fixed dimming. |
| Lumen depreciation dimming <small>Note 3</small>                                                                                                 | All fittings with lumen depreciation dimming                                                                                                                                                                                                                                   | 0.85                                                                                                           |
| Two stage sensor - equipped lights with minimum power of 30 % of peak power or less                                                              | Fire stairs and other spaces not used for regular transit                                                                                                                                                                                                                      | 0.4                                                                                                            |
| Two stage sensor - equipped lights with minimum power of 30% of peak power or less                                                               | Transitory spaces in regular use or in a <i>carpark</i>                                                                                                                                                                                                                        | 0.7                                                                                                            |
| Daylight sensor and dynamic lighting control device - dimmed or stepped switching of lights adjacent <i>windows</i> <small>Notes 3 and 5</small> | In a Class 5, 6, 7, 8 or 9b building or a Class 9a building, other than a <i>ward area</i> , where the lights are adjacent <i>windows</i> , other than <i>roof lights</i> , for a distance from the <i>window</i> equal to the depth of the floor to <i>window</i> head height | 0.5 <small>Note 3</small>                                                                                      |
| Daylight sensor and dynamic lighting control device - dimmed or stepped switching of lights adjacent <i>windows</i> <small>Notes 3 and 5</small> | Serving a Class 3 or 9c building, or a Class 9a <i>ward area</i> , where the lights are adjacent <i>windows</i> , other than <i>roof lights</i> , for a distance from the <i>window</i> equal to the depth of the floor to <i>window</i> head height                           | 0.75 <small>Note 3</small>                                                                                     |
| Daylight sensor and dynamic lighting control device - dimmed or stepped switching of lights adjacent <i>windows</i> <small>Notes 3 and 5</small> | In a Class 5, 6, 7, 8 or 9b building or a Class 9a building, other than a <i>ward area</i> , where the lights are adjacent <i>roof lights</i>                                                                                                                                  | 0.6 <small>Note 3</small>                                                                                      |
| Daylight sensor and dynamic lighting control device - dimmed or stepped switching of lights adjacent <i>windows</i> <small>Notes 3 and 5</small> | In a Class 3 or 9c building, or a Class 9a <i>ward area</i> , where the lights are adjacent <i>roof lights</i>                                                                                                                                                                 | 0.8 <small>Note 3</small>                                                                                      |

The above requirements do not apply to the following:

- Emergency lighting provided in accordance with Part E4.
- Signage, display lighting within cabinets and display cases that are fixed in place.
- Lighting for accommodation within the residential part of a detention centre.
- A heater where the heater also emits light, such as in bathrooms.
- Lighting of a specialist process nature such as in a surgical operating theatre, fume cupboard or clean workstation.
- Lighting of performances such as theatrical or sporting.



- Lighting for the permanent display and preservation of works of art or objects in a museum or gallery other than for retail sale, purchase or auction.
- Lighting installed solely to provide photosynthetically active radiation for indoor plant growth on green walls and the like.

### 6.3 J7D4 – Interior Artificial Lighting and Power Control

All artificial lighting of a room or space must be individually operated by—

- a switch; or
- other control device.

An artificial lighting switch or other control device in the above requirement must—

- if an artificial lighting switch, be located in a visible and easily accessed position—
  - in the room or space being switched; or
  - in an adjacent room or space from where 90% of the lighting being switched is visible; and
- for other than a single functional space such as an auditorium, theatre, swimming pool, sporting stadium or warehouse—
  - if in a Class 5 building or a Class 8 laboratory, not operate lighting for an area of more than 250 m<sup>2</sup>; or
  - if in a Class 3, 6, 7, 8 (other than a laboratory) or 9 building, not operate lighting for an area of more than—
    - 250 m<sup>2</sup> for a space of not more than 2000 m<sup>2</sup>; or
    - 1000 m<sup>2</sup> for a space of more than 2000 m<sup>2</sup>.

95% of the light fittings in a building or storey of a building, other than a Class 2 or 3 building or a Class 4 part of a building of more than 250 m<sup>2</sup> must be controlled by—

- a time switch in accordance with Specification 40; or
- an occupant sensing device such as—
  - a security key card reader that registers a person entering and leaving the building; or
  - a motion detector in accordance with Specification 40.

In a Class 5, 6 or 8 building of more than 250 m<sup>2</sup>, artificial lighting in a natural lighting zone adjacent to windows must be separately controlled from artificial lighting not in a natural lighting zone in the same storey except where—



- the room containing the natural lighting zone is less than 20 m<sup>2</sup>; or
- the room's natural lighting zone contains less than 4 luminaires; or
- 70% or more of the luminaires in the room are in the natural lighting zone.

Artificial lighting in a fire-isolated stairway, fire-isolated passageway or fire-isolated ramp, must be controlled by a motion detector in accordance with Specification 40.

Artificial lighting in a foyer, corridor and other circulation spaces—

- of more than 250 W within a single zone; and
- adjacent to windows, must be controlled by a daylight sensor and dynamic lighting control device in accordance with Specification 40.

Artificial lighting for daytime travel in the first 19 m of travel in a carpark entry zone must be controlled by a daylight sensor in accordance with Specification 40.

## **6.4 J7D5 – Interior Decorative and Display Lighting**

Any interior/ lighting for display or decorative purposes, such as the illumination of foyer murals,

- must be separately controlled from other artificial lighting.
- by a time switch in accordance with Specification 40 where the display lighting exceeds 1 kW.

Window display lighting must be controlled separately from other display lighting.

## **6.5 J7D6 – Exterior Artificial Lighting**

Artificial lighting around the perimeter of a building will be controlled by a time switch or daylight sensor complying with Section J6 lighting controls requirements.

A time switch needs to abide by the specification set out in the 2022 NCC. Switching on and off electric power to systems at variable pre-programmed times and on variable pre-programmed days.

When the total perimeter lighting load exceeds 100W, LED luminaires must be used for 90% of the total lighting load or be controlled by a motion detector in accordance with Specification 40 or when used for decorative purposes, such as façade lighting or signage lighting, have a separate time switch in accordance with Specification 40.

## **6.6 J7D7 – Boiling Water and Chilled Water Storage Units**

Power supply to a boiling water or chilled water storage unit must be controlled by a time switch in accordance with Specification 40.

## **6.7 J7D8 – Lifts**

Lifts must—





- be configured to ensure artificial lighting and ventilation in the car are turned off when it is unused for 15 minutes; and
- achieve the idle and standby energy performance level in Table J7D8a; and
- achieve—
  - the energy efficiency class in Table J7D8b; or
  - if a dedicated goods lift, energy efficiency class D in accordance with ISO 25745-2.

**Table 23 Copy of Table J7D8a Lift idle and standby energy performance level**

**Table J7D8a: Lift idle and standby energy performance level**

| Rated load                               | Idle and standby energy performance level in accordance with ISO 25745-2 <sup>Note</sup> |
|------------------------------------------|------------------------------------------------------------------------------------------|
| Less than or equal to 800 kg             | 2                                                                                        |
| 801 kg to less than or equal to 2000 kg  | 3                                                                                        |
| 2001 kg to less than or equal to 4000 kg | 4                                                                                        |
| Greater than 4000 kg                     | 5                                                                                        |

**Table 24 Copy of Table J7D8b Lift energy efficiency class**

**Table J7D8b: Lift energy efficiency class**

| Usage category in accordance with ISO 25745-2 | Energy efficiency class in accordance with ISO 25745-2 |
|-----------------------------------------------|--------------------------------------------------------|
| 1-4                                           | C                                                      |
| > 5                                           | D                                                      |

## 6.8 J7D9 – Escalators and moving walkways

Escalators and moving walkways must have the ability to slow to between 0.2 m/s and 0.05 m/s when unused for more than 15 minutes.



## 7.0 Part J8 – Heated Water Supply and Swimming Pool and Spa Pool Plant

Part J8 of the 2022 NCC contains the requirements of the Deemed-to-Satisfy compliance of a building's hot water supply system. The purpose of this subsection is to ensure that efficient hot water units and systems are installed.

### 7.1 J8D2 - Heated water supply

A heated water supply system for food preparation and sanitary purposes must be designed and installed in accordance with Part B2 of NCC Volume Three — Plumbing Code of Australia.

### 7.2 J8D3 Swimming pool heating and pumping

Heating for a swimming pool must be by—

- a solar heater; or
- a heater using reclaimed heat from another process such as reject heat from a refrigeration plant; or
- a geothermal heater; or
- a gas heater that—
  - if rated to consume 500 MJ/hour or less, achieves a minimum gross thermal efficiency of 86%; or
  - if rated to consume more than 500 MJ/hour, achieves a minimum gross thermal efficiency of 90%; or
- a heat pump; or

Where some or all of the heating required by the above requirement is by a gas heater or a heat pump, the swimming pool must have—

- a cover with a minimum R-Value of 0.05; and
- a time switch to control the operation of the heater.

A time switch must be provided to control the operation of a circulation pump for a swimming pool.

Where required, a time switch must be capable of switching electric power on and off at variable pre-programmed times and on variable pre-programmed days.

Pipework carrying heated or chilled water for a swimming pool must comply with the insulation requirements of J6D9.

For the purpose of J8D3, a swimming pool does not include a spa pool.



### 7.3 J8D4 Spa pool heating and pumping

Heating for a spa pool that shares a water recirculation system with a swimming pool must be by—

- a solar heater; or
- a heater using reclaimed heat from another process such as reject heat from a refrigeration plant; or
- a geothermal heater; or
- a gas heater that—
  - if rated to consume 500 MJ/hour or less, achieves a minimum gross thermal efficiency of 86%; or
  - if rated to consume more than 500 MJ/hour, achieves a minimum gross thermal efficiency of 90%; or
- a heat pump; or

Where some or all of the heating required by the above statement is by a gas heater or a heat pump, the spa pool must have—

- a cover with a minimum R-Value of 0.05; and
- a push button and a time switch to control the operation of the heater.

A time switch must be provided to control the operation of a circulation pump for a spa pool having a capacity of 680 L or more.

Where required, a time switch must be capable of switching electric power on and off at variable pre-programmed times and on variable pre-programmed days.

Pipework carrying heated or chilled water for a spa pool must comply with the insulation requirements of J6D9.



## 8.0 Part J9 – Facilities for energy monitoring

Part J9 of the 2022 NCC contains the requirements of the Deemed-to-Satisfy compliance of a building's Facilities for energy monitoring. The purpose of this subsection is to ensure that access can be gained to all services and must be interlinked by a communication system that collates the time-of-use energy consumption data to a single interface monitoring system where it can be stored, analysed and reviewed.

### 8.1 J9D2 - Application

As stated by the 2022 NCC, Part J9 does not apply to within a sole-occupancy unit of a Class 2 building or a Class 4 part of a building; or to a Class 8 electricity network substation. Part J9 therefore applies to the proposed development.

### 8.2 J9D3 Facilities for energy monitoring

A building or sole-occupancy unit with a floor area of more than 500 m<sup>2</sup> must have the facility to record the consumption of gas and electricity.

A building with a floor area of more than 2 500 m<sup>2</sup> must have energy meters configured to enable individual time-of-use energy data recording, in accordance with the below, of—

- air-conditioning plant including, where appropriate, heating plant, cooling plant and air handling fans; and
- artificial lighting; and
- appliance power; and
- central hot water supply; and
- internal transport devices including lifts, escalators and moving walkways where there is more than one serving the building; and
- on-site renewable energy equipment; and
- on-site electric vehicle charging equipment; and
- on-site battery systems; and
- other ancillary plant.

Energy meters required by the above statement must be interlinked by a communication system that collates the time-of-use energy data to a single interface monitoring system where it can be stored, analysed and reviewed.

### 8.3 J9D4 Facilities for Electric Vehicle Charging Equipment

- A carpark associated with a Class 2, 3, 5, 6, 7b, 8 or 9 building must be provided with electrical distribution boards dedicated to electric vehicle charging—
  - a. in accordance with Table J9D4 in each storey of the carpark; and



- b. labelled to indicate use for electric vehicle charging equipment.
- Electrical distribution boards dedicated to serving electric vehicle charging in a carpark must—
  - a. be fitted with a charging control system with the ability to manage and schedule charging of electric vehicles in response to total building demand; and
  - b. have capacity for each circuit to support an electric vehicle charger able to deliver a minimum of 12 kWh from 11:00 pm to 7:00 am daily when associated with a Class 2 building; and
  - c. have capacity for each circuit to support an electric vehicle charger able to deliver a minimum of 12 kWh from 9:00 am to 5:00 pm daily when associated with a Class 5 to 9 building; and
  - d. be sized to support the future installation of a 7 kW (32 A) type 2 electric vehicle charger in—
    - (i) 100% of the car parking spaces associated with a Class 2 building; or
    - (ii) 10% of car parking spaces associated with a Class 5 or 6 building; or
    - (iii) 20% of car parking spaces associated with a Class 3, 7b, 8 or 9 building; and
  - e. contain space of at least 36 mm width of DIN rail per outgoing circuit for individual sub-circuit electricity metering to record electricity use of electric vehicle charging equipment; and
  - f. be labelled to indicate the use of the space required by (f) is for the future installation of metering equipment.

**Table 25 Copy of Table J9D4 Electric vehicle distribution board requirement for each storey of a carpark**

**Table J9D4: Electric vehicle distribution board requirement for each storey of a carpark**

| <i>Carpark spaces per storey for electric vehicles</i> | <i>Electrical distribution boards for electric vehicle charging per storey</i> |
|--------------------------------------------------------|--------------------------------------------------------------------------------|
| 0 - 9                                                  | 0                                                                              |
| 10 - 24                                                | 1                                                                              |
| 25 - 48                                                | 2                                                                              |
| 49 - 72                                                | 3                                                                              |
| 73 - 96                                                | 4                                                                              |
| 97 - 120                                               | 5                                                                              |
| 121 - 144                                              | 6                                                                              |
| 145 - 168                                              | 7                                                                              |



## 8.4 J9D5 Facilities for Solar Photovoltaic and Battery Systems

- The main electrical switchboard of a building must contain at least two empty three-phase circuit breaker slots and four DIN rail spaces labelled to indicate the use of each space for a solar photovoltaic system and a battery system; and be sized to accommodate the installation of solar photovoltaic panels producing their maximum electrical output on at least 20% of the building roof area.
- At least 20% of the roof area of a building must be left clear for the installation of solar photovoltaic panels, except for buildings—
  - a. with installed solar photovoltaic panels on at least 20% of the roof area; or an equivalent generation capacity elsewhere on-site; or
  - b. where 100% of the roof area is shaded for more than 70% of daylight hours; or
  - c. with a roof area of not more than 55 m<sup>2</sup>; or
  - d. where more than 50% of the roof area is used as a terrace, carpark, roof garden, roof light or the like.





## 9.0 Conclusion

This Section J Deem-to-Satisfy Report has been prepared by SLR Consulting Pty Ltd (SLR) on behalf of Leppington (1) 88 Development Pty Ltd (**the Applicant**) to address the project-specific Secretary's Environmental Assessment Requirements (SEARs) issued the proposed State Significant Development Application (SSDA) SSD-99319962. The development is located at 173-183 Rickard Road, Leppington (the Site) and is located within the South West Growth Area (**SWGA**) within the Camden Local Government Area (**LGA**).

The project seeks detailed development consent for the construction of a mixed-use development to deliver Leppington Civic Centre, comprising shop top housing to support residential development and commercial land uses at 173-183 Rickard Road, Leppington.

Specifically, the SSDA seeks consent for:

- Demolition and earthworks to prepare the site for future development.
- Delivery of new roads and approximately 6,500 sqm of open space.
- Delivery of 8 residential buildings to accommodate a total of 1493 units, comprising of:
  - Build to Sell Apartments: 864
  - Build to Rent Apartments: 412
  - Affordable Apartments 217 (representing circa 15% of total residential yield)
- Delivery of a 156-key hotel (non-residential).
- Approximately 40,500 sqm of non-residential Gross Floor Area (GFA).
- Loading and car parking facilities on the lower ground and basement levels.
- The proposed development is supported by concurrent rezoning application to seek amendments to Appendix 5 Camden Growth Centres Precinct Plan within the *State Environmental Planning Policy (Precincts – Western Parkland City) 2021* pursuant to the concurrent rezoning process through the Housing Delivery Authority (**HDA**) planning pathway. This concurrent rezoning will provide the rezoning and variations to development standards required to facilitate the delivery of the Leppington Civic Centre and Leppington Town Centre, generally in accordance with the Leppington Town Centre State-Assessed Rezoning Proposal (**SARP**).

The application seeks approval for the following mixed-use development, including the below:

- 5 levels of basement carpark spaces, with storage and car services
- A potential swim school in Building 1
- Retail areas from Lower Ground to Level 1 across Building 1 to Building 8
- Family entertainment on Level 1 in Building 5
- Fitness on Level 1 in Building 6
- Hotel lobby on Upper Ground and Level 1 in Building 4
- Hotel rooms from Level 2 to Level 11 in Building 4



- Residential apartments from Level 2 to Level 36 in Building 1, 2, 3, 5, 6, 7 and 8

This report only focuses on the non-residential components – the swim school, retail areas, and the hotel.

This requirement has been defined in Volume 1 of the 2022 NCC under Section J and is titled Energy Efficiency. Several Deemed-to-Satisfy subsections focus on separate aspects of energy efficiency.

- J4 - Building fabric
- J5 - Building sealing
- J6 - Air-conditioning and ventilation
- J7 - Artificial light and power
- J8 - Heated water supply and swimming pool and spa pool plant
- J9 - Energy monitoring and on-site distributed energy resources

The NCC currently defines the development area as climate zone 6.

The sub classification for the proposed building is:

- Retail space – Class 6
- Hotel and associated services – Class 3
- Swim school – Class 9b
- Fitness – Class 9b
- Family Entertainment – Class 9b

SLR recommends the following to the building fabrics to comply with NCC 2022 Section J:

- Roof and ceiling insulation requirements have been specified within Table 1. The total R-value of the roof system is required to be R3.2 where specified in Appendix A.
- Floor insulation requirements have been specified within Table 7. The total R-value of the floor system is required to be R2.0 where specified in Appendix B.
- Wall-glazing requirements and wall requirements have been specified within Table 4 and Table 5.
  - The total R-value of the external wall system is required to be R2.08 for external walls where specified in Appendix C.
  - The total R-value of the internal wall system is required to be R2.08 for internal walls where specified in Appendix C



This report contains requirements for building sealing, air conditioning, artificial lighting, hot water supply, and the Facilities for Energy Monitoring.

This report has provided advice about each subsection under Section J and identified how compliance with the NCC can be achieved regarding the proposed building. The architect and services designers must specify and document compliant constructions showing NCC Section J requirements are met.

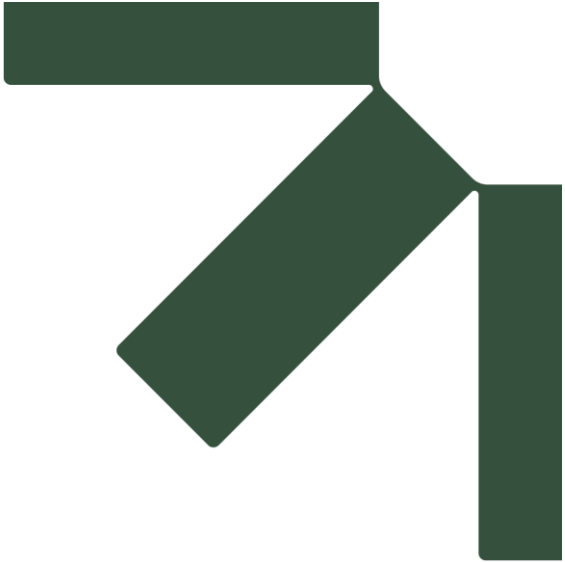


## 10.0 Feedback

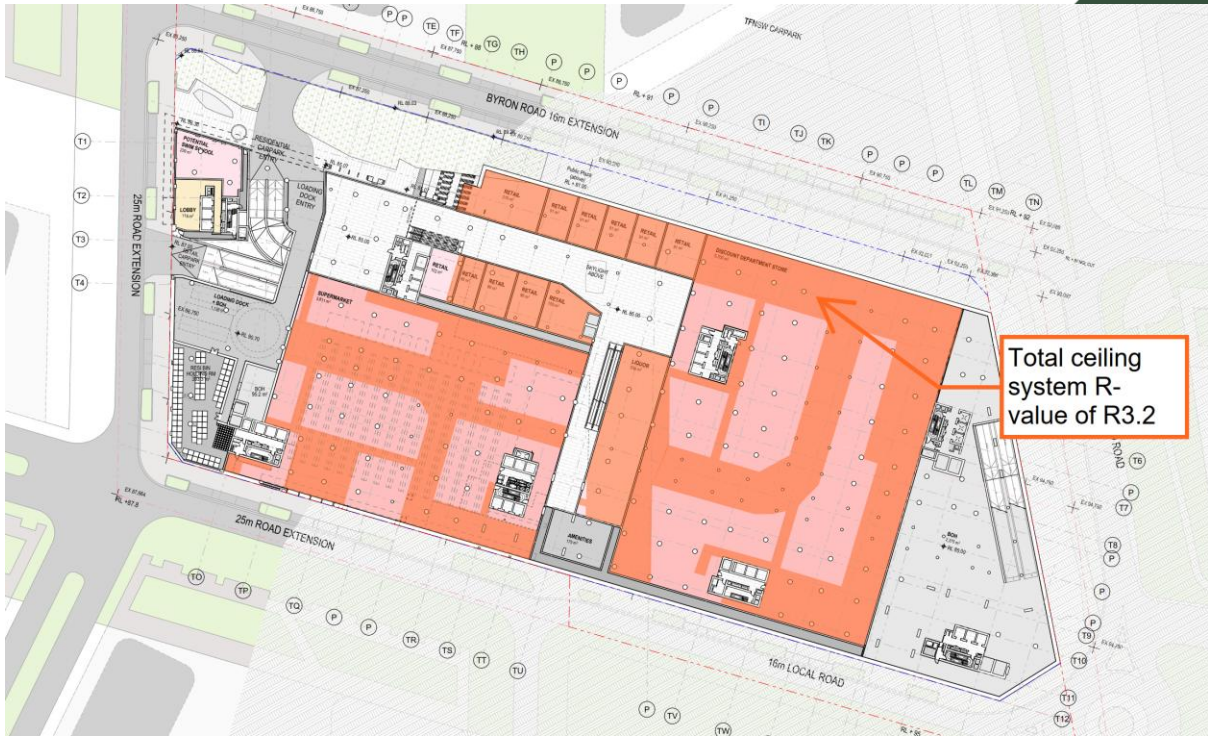
At SLR, we are committed to delivering professional quality service to our clients. We are constantly looking for ways to improve the quality of our deliverables and our service to our clients. Client feedback is a valuable tool in helping us prioritise services and resources according to our client needs.

To achieve this, your feedback on the team's performance, deliverables and service are valuable and SLR welcome all feedback via <https://www.slrconsulting.com/en/feedback>. We recognise the value of your time and we will make a \$10 donation to our Charity Partner - Lifeline, for every completed form.

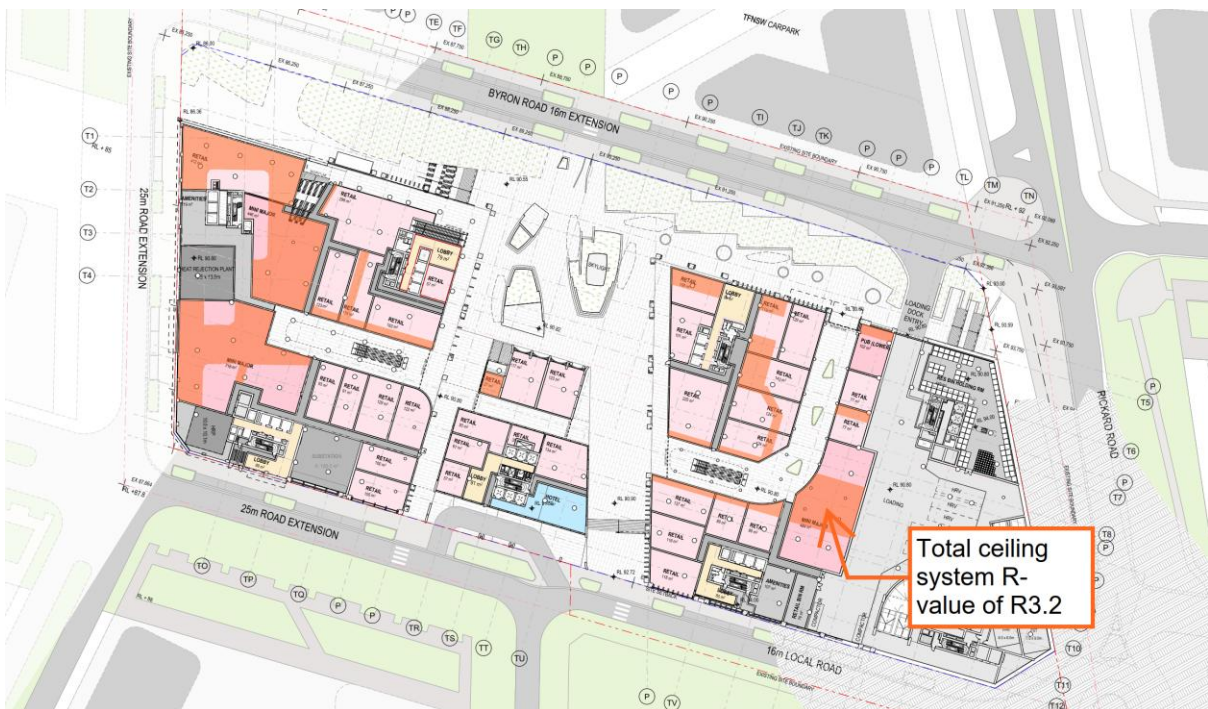




## **Appendix A    NCC 2022 envelope roof/ceiling DTS requirements**

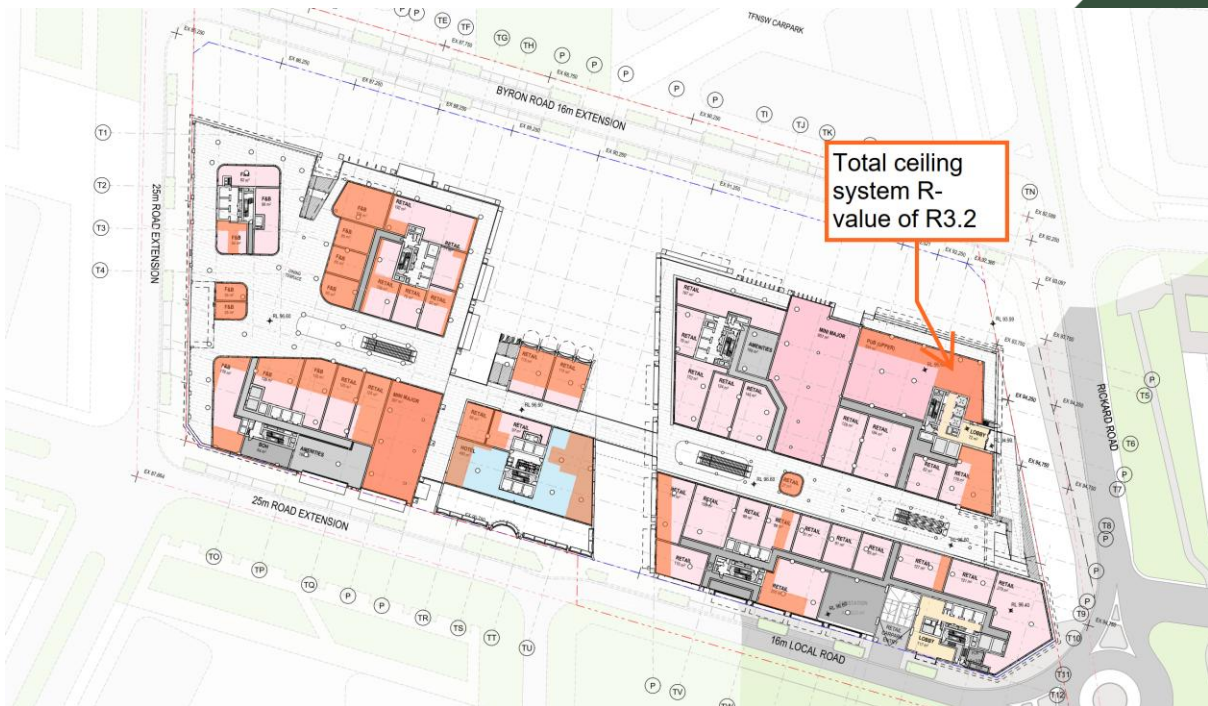


Lower Ground

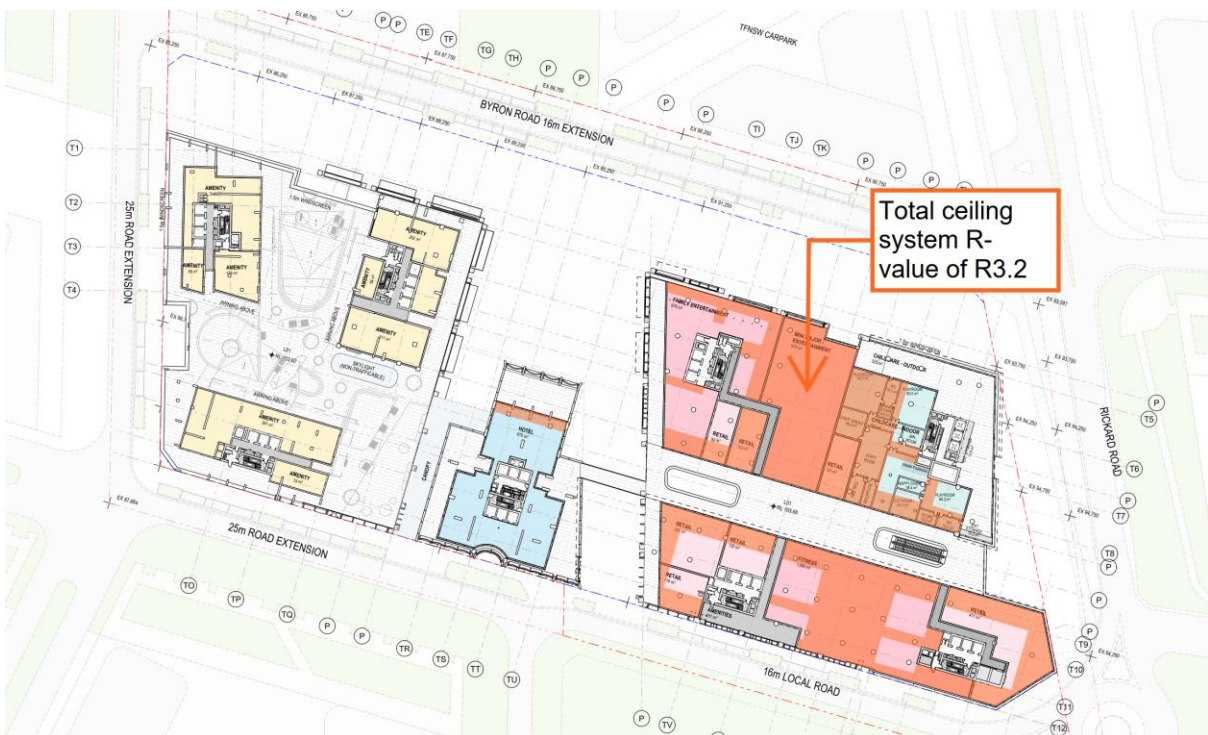


Ground Floor



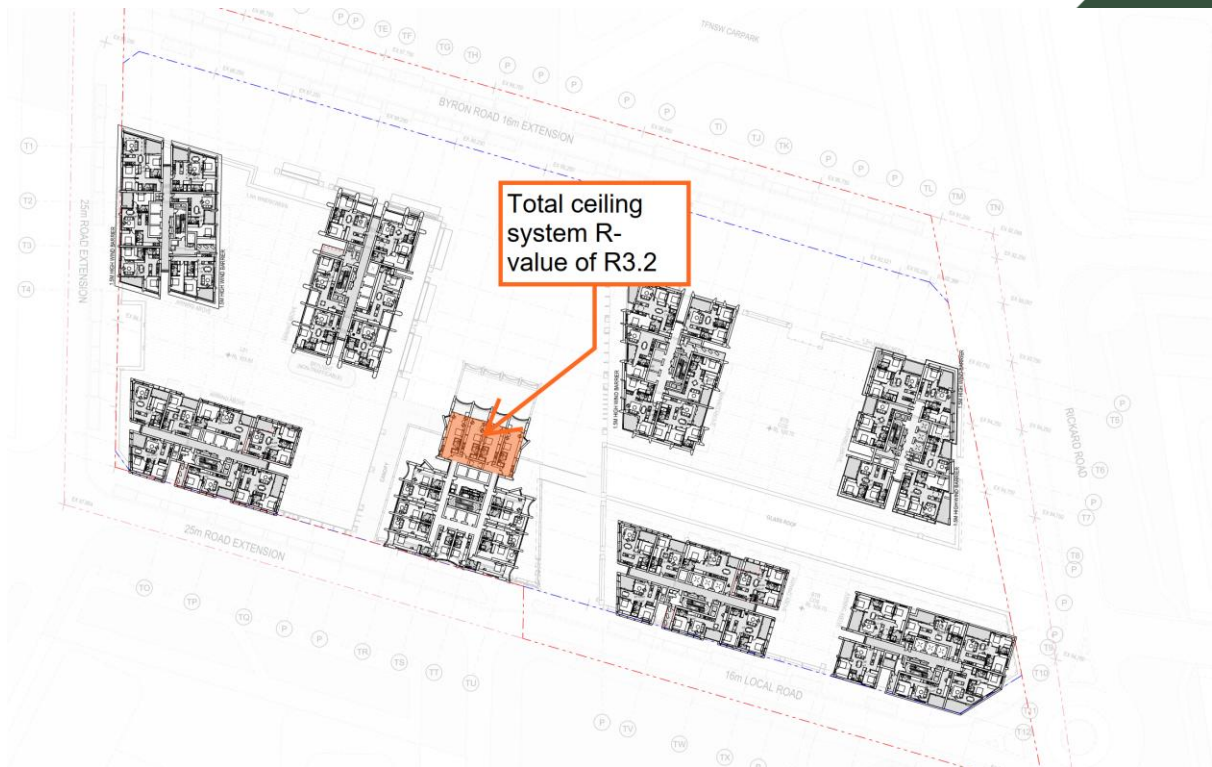


Upper Ground



Level 1

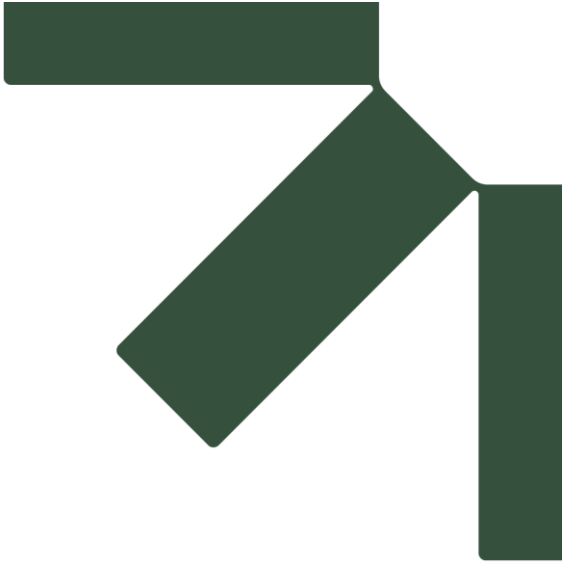




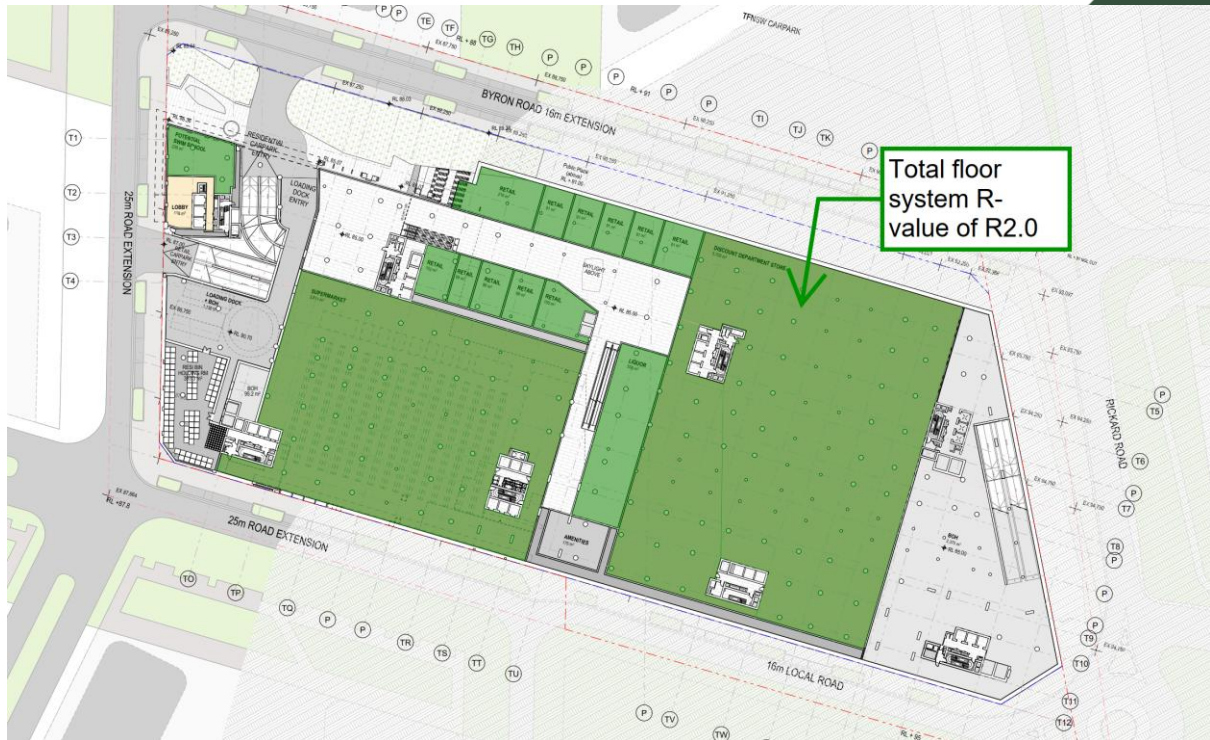
Level 10



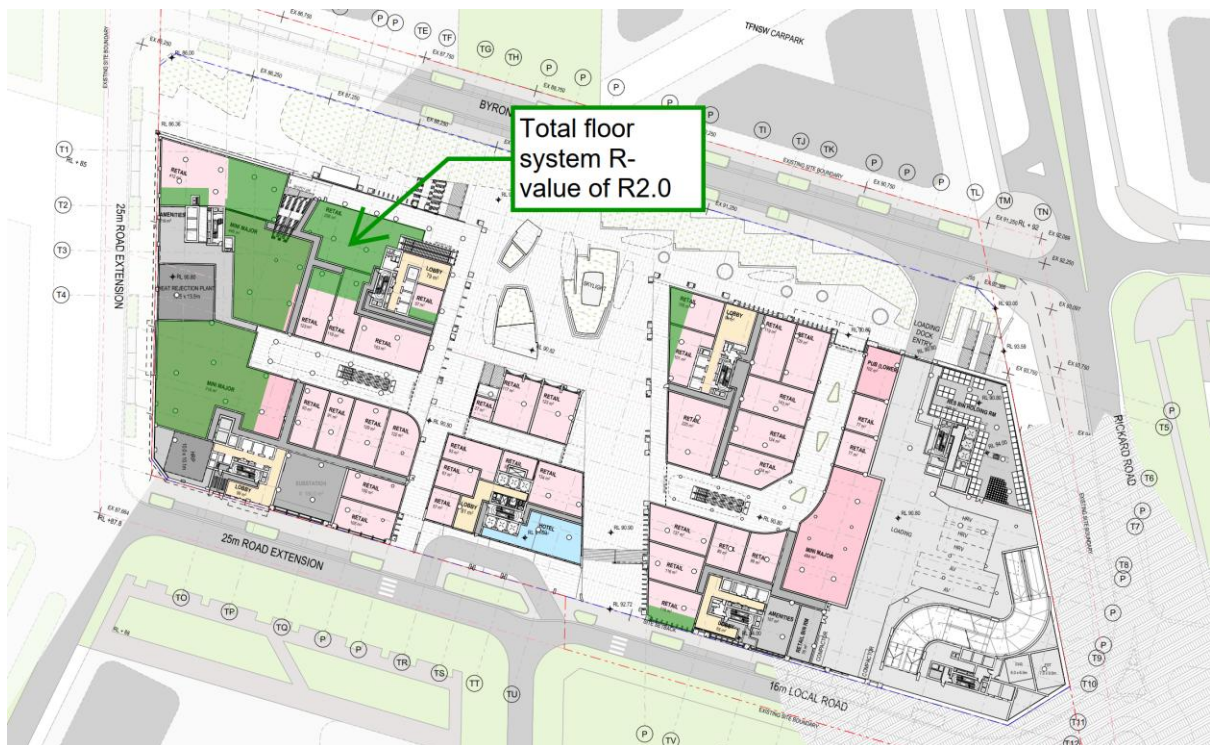
Level 11



# **Appendix B    NCC 2022 Envelope Floor DTS Requirements**

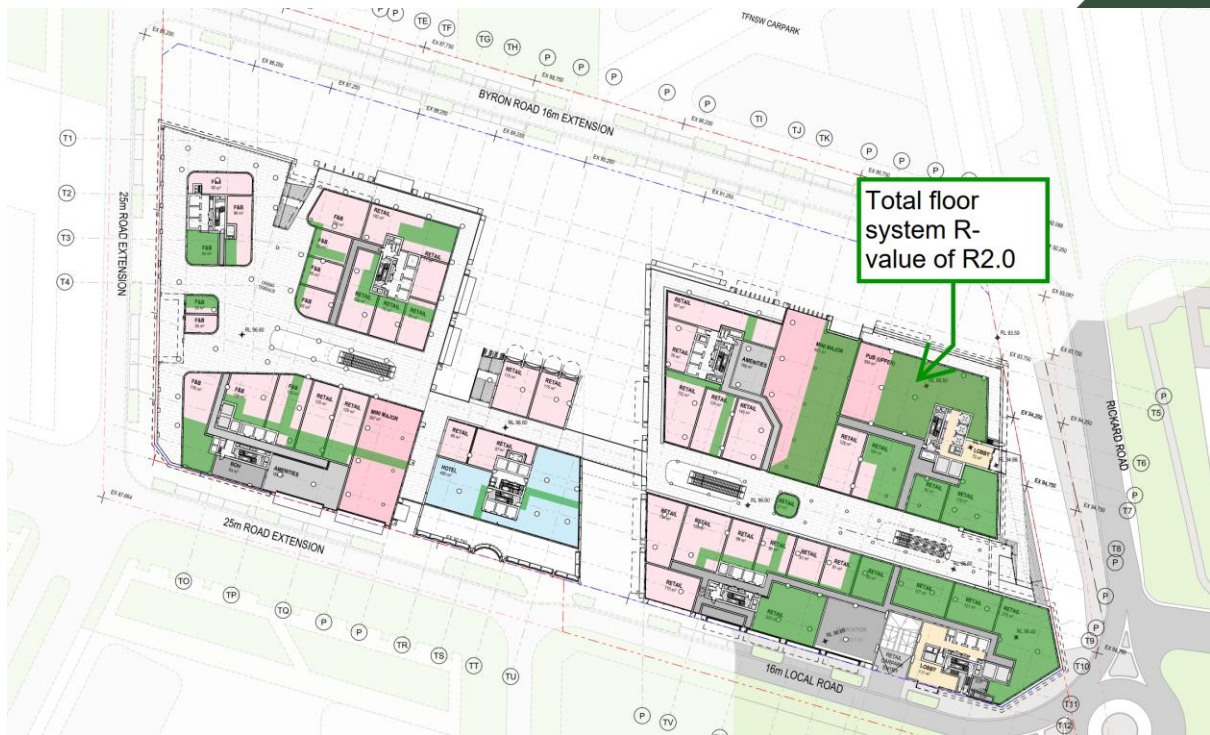


Lower Ground

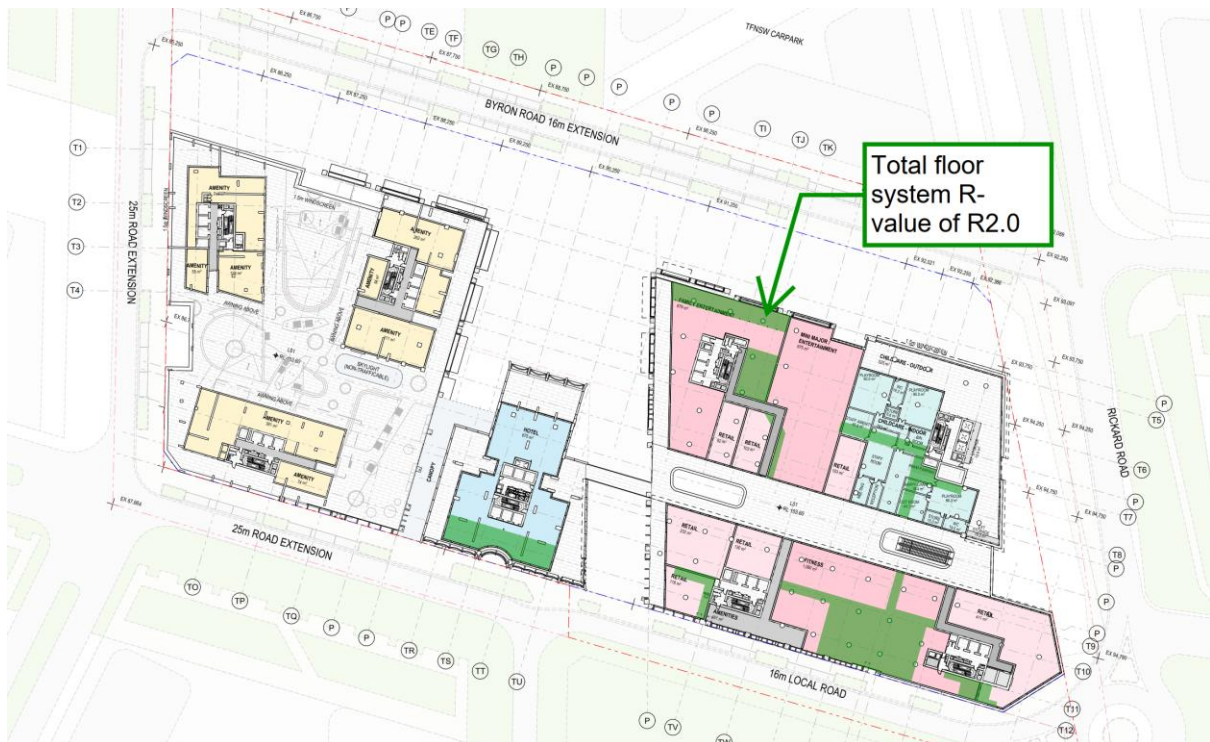


Ground Floor





Upper Ground

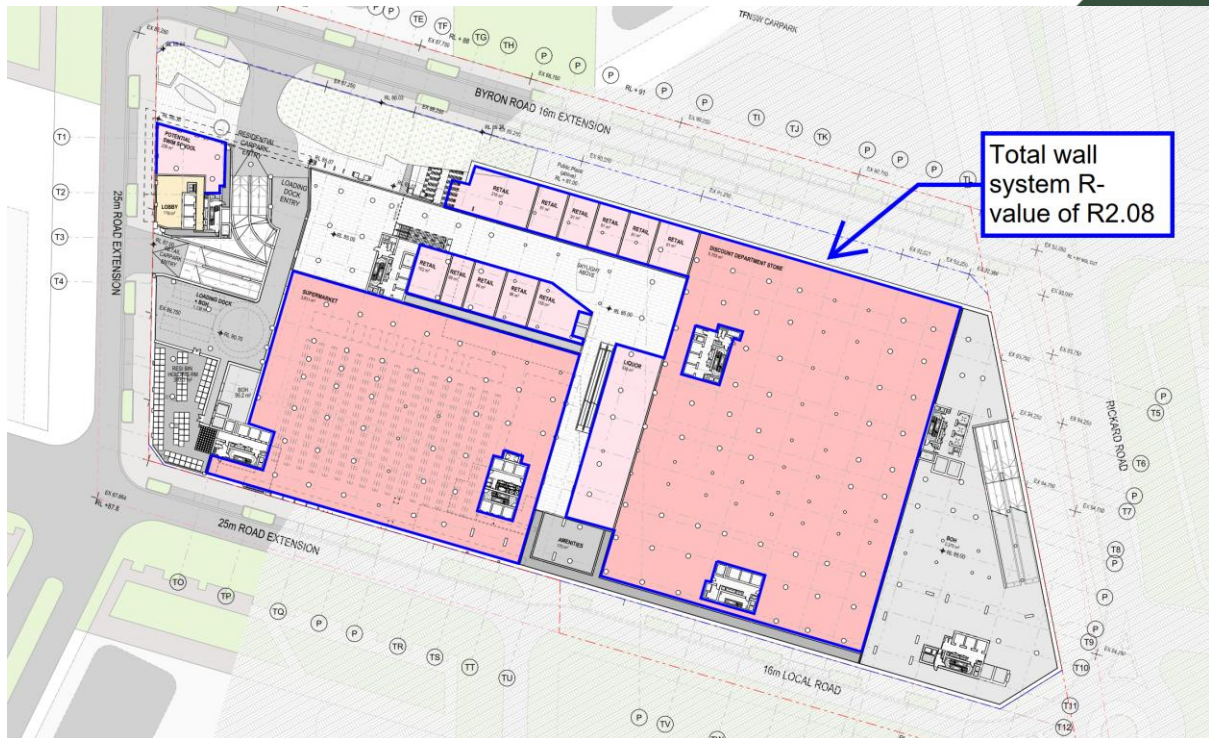


Level 1

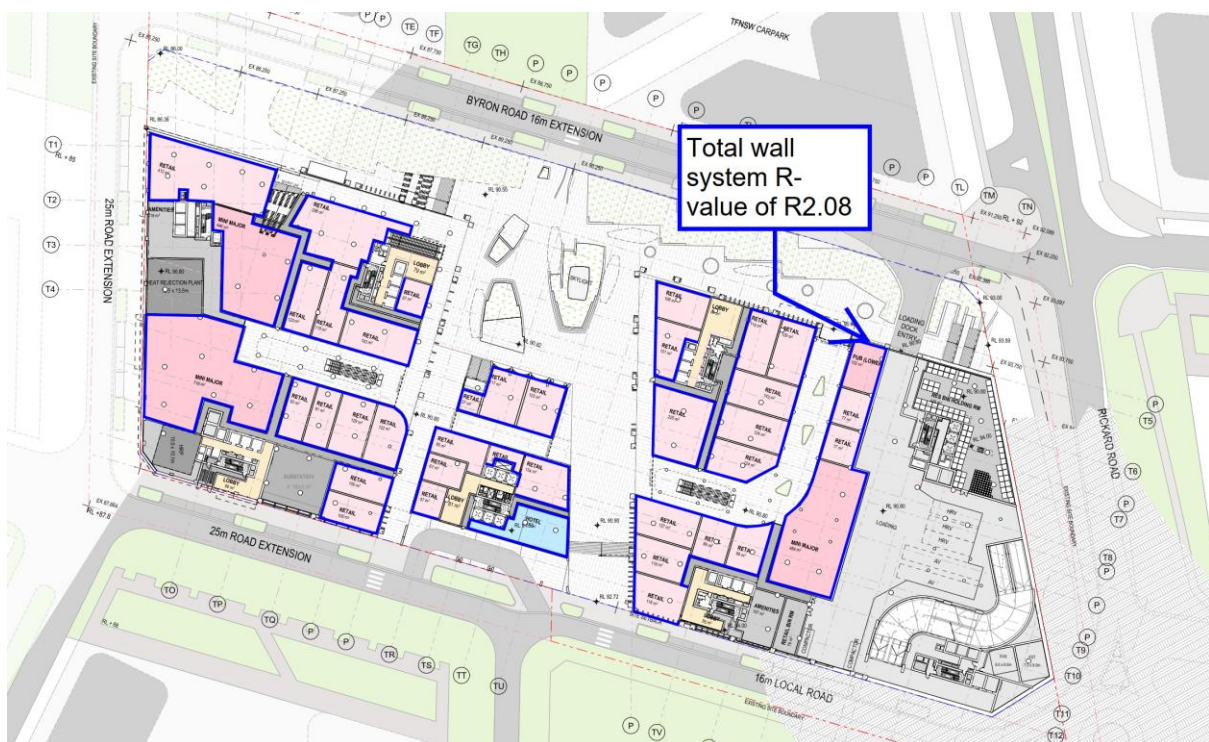


**Appendix C    Marked-up drawing  
for and NCC 2022  
wall-glazing calculator  
DTS requirements  
external wall**



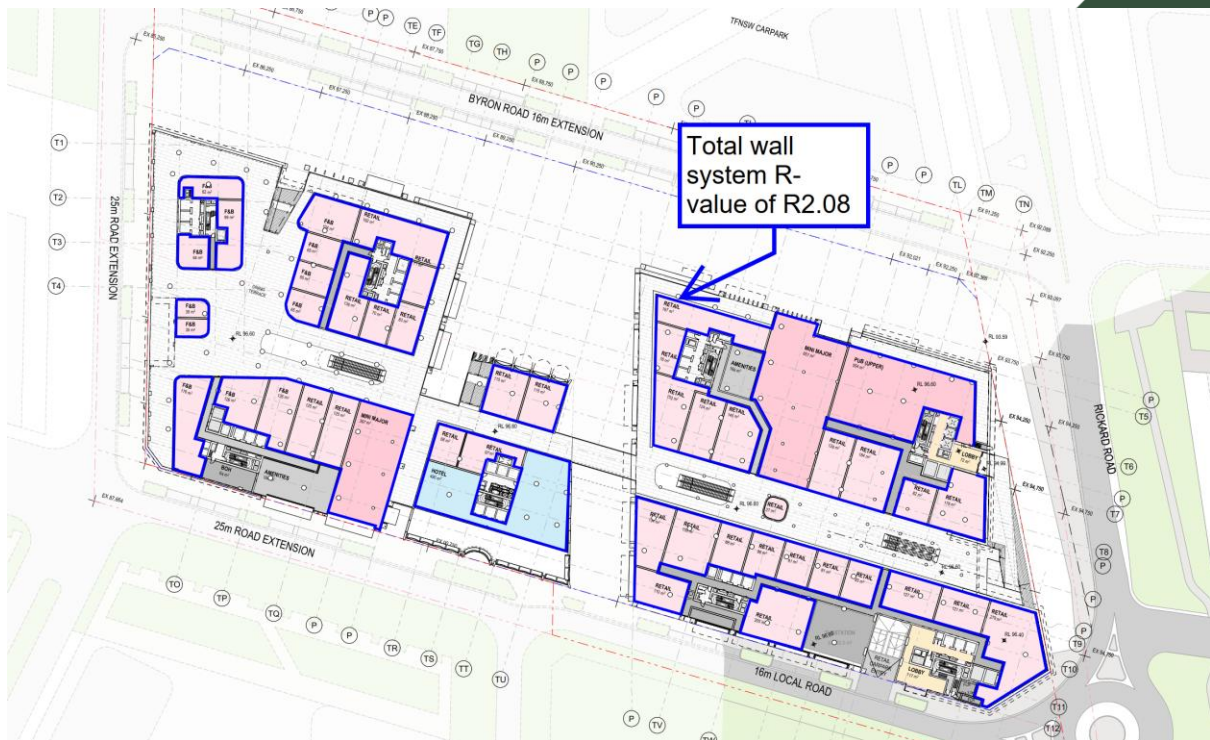


Lower Ground

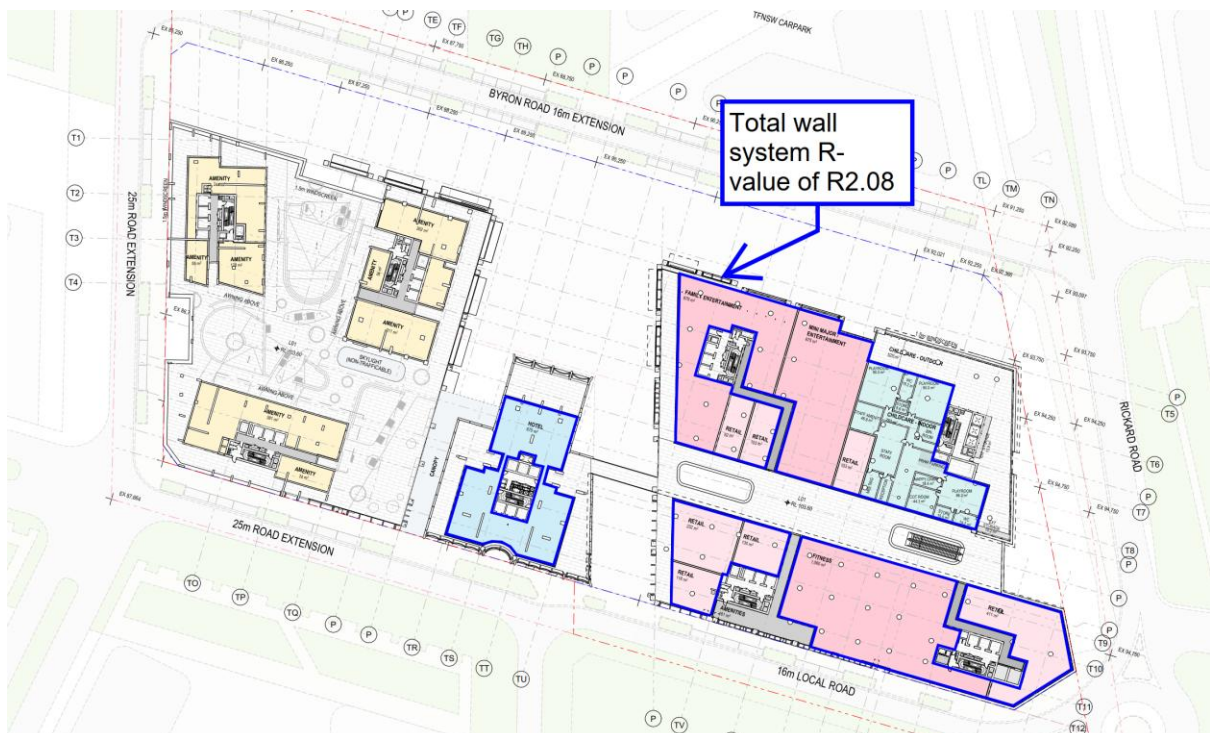


Ground Floor

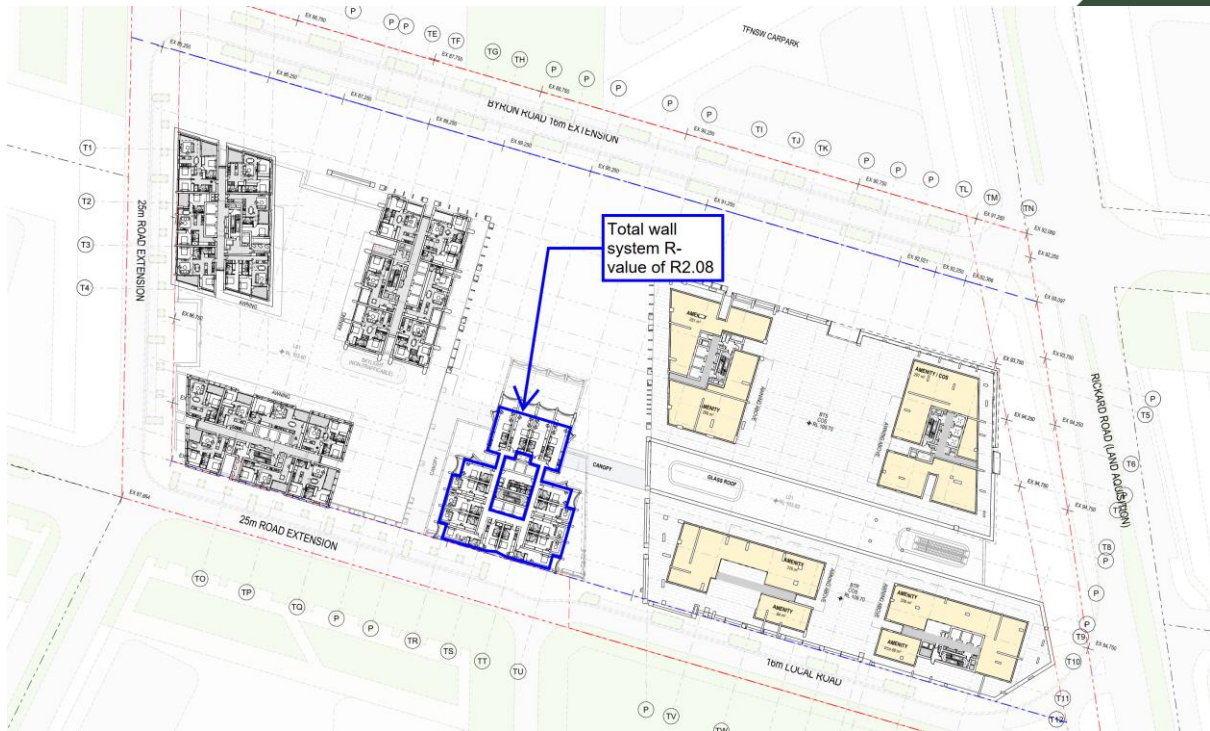




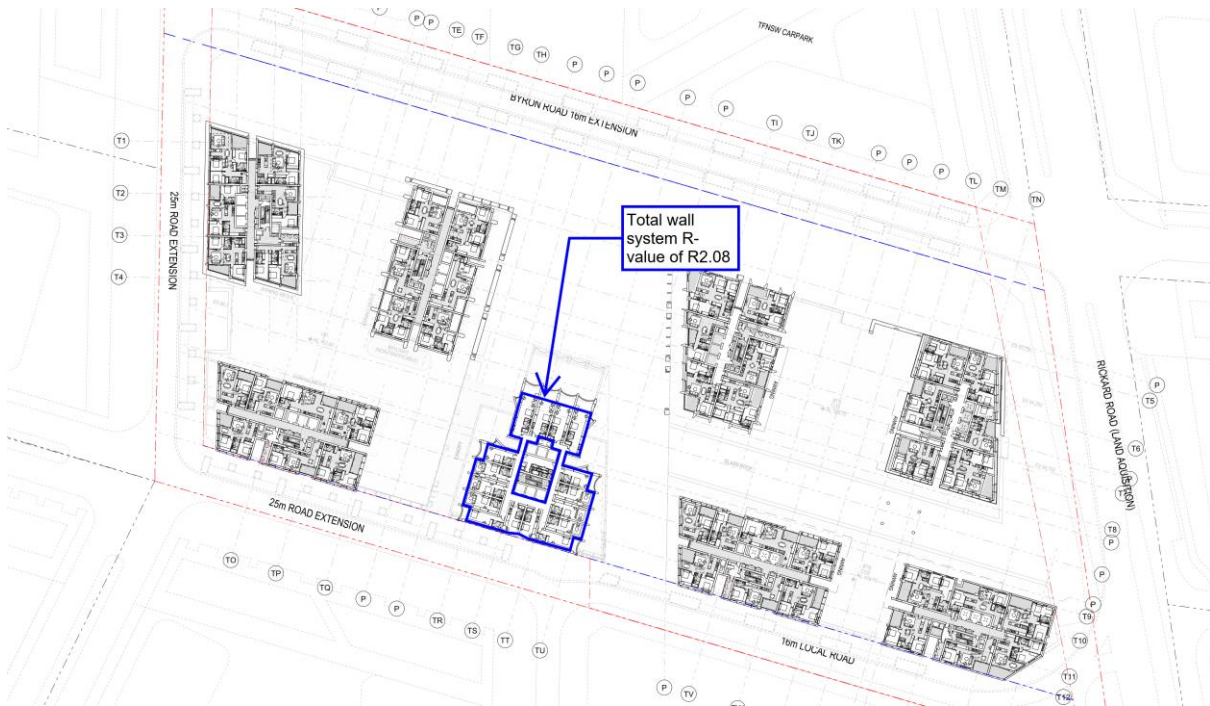
Upper Ground



Level 1



Level 2

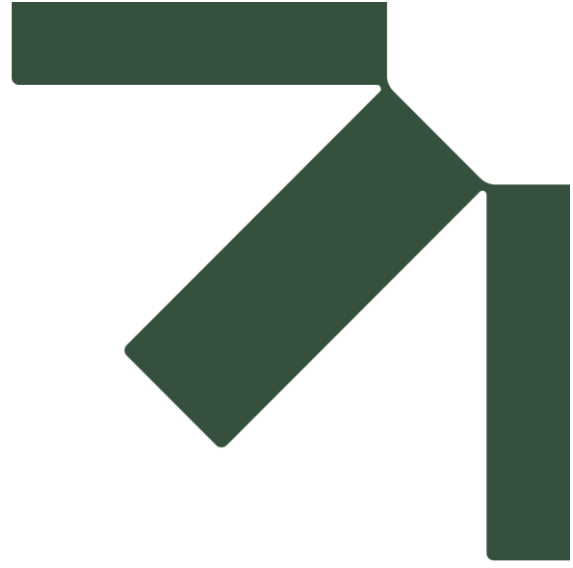


Level 3 to Level 10





Level 11



## Appendix D   Glazing Calculator

## Project Summary

**Date**  
11/05/2026

**Name**  
Shawn Sun

**Company**  
SLR Consulting

**Position**  
Sr Project Consultant

**Building Name / Address**  
173-183 Rickard Road  
Leppington, NSW

### Building State

NSW

**Climate Zone**  
Climate Zone 6 - Mild temperate

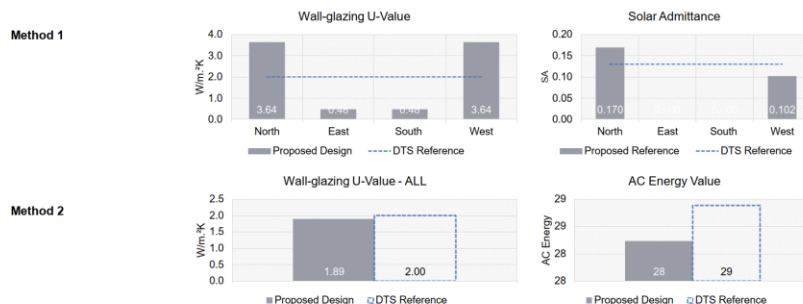
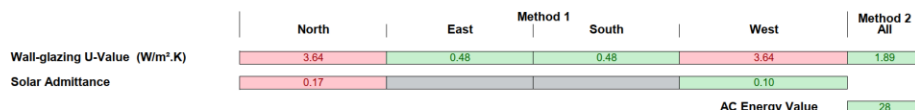
**Building Classification**  
Class 9b - sports venues or the like

Storeys Above Ground  
36

**Tool Version**  
1.5 (May 2024)

The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).

Compliant Solution =  
Non-Compliant Solution =



## Project Details

|                                  | North                                     | East          | South         | West                                      |
|----------------------------------|-------------------------------------------|---------------|---------------|-------------------------------------------|
| Glazing Area (m²)                | 30.36                                     | 0             | 0             | 66                                        |
| Glazing to Façade Ratio          | 79%                                       | 0%            | 0%            | 79%                                       |
| Glazing References               | GF ALL                                    |               |               | GF ALL                                    |
| Glazing System Types             | Fixed                                     |               |               | Fixed                                     |
| Glass Types                      | Double Glazed Unit - triple low-E coating |               |               | Double Glazed Unit - triple low-E coating |
| Frame Types                      | Aluminium thermally broken                |               |               |                                           |
| Average Glazing U-Value (W/m².K) | 4.50                                      |               |               | 4.50                                      |
| Average Glazing SHGC             | 0.29                                      | 0.00          | 0.00          | 0.29                                      |
| Shading Systems                  | Horizontal                                | Horizontal    | Horizontal    | Horizontal                                |
| Wall Area (m²)                   | 8.28                                      | 60.48         | 92.4          | 18                                        |
| Wall Types                       | Wall                                      | Wall          | Wall          | Wall                                      |
| Methodology                      | Wall                                      |               |               |                                           |
| Wall Construction                | External Wall                             | Internal Wall | Internal Wall | Internal Wall                             |
| Wall Thickness                   | 150                                       | 150           | 150           | 150                                       |
| Average Wall R-value (m².K/W)    | 2.08                                      | 2.08          | 2.08          | 2.08                                      |
| Solar Absorptance                | 0.5                                       | 0.5           | 0.5           | 0.5                                       |





## Project Summary

### Project Details

|                                  | North                       | East              | South                                     | West                                      |
|----------------------------------|-----------------------------|-------------------|-------------------------------------------|-------------------------------------------|
| Glazing Area (m²)                | 0                           | 0                 | 274.56                                    | 101.2                                     |
| Glazing to Façade Ratio          | 0%                          | 0%                | 79%                                       | 71%                                       |
| Glazing References               |                             |                   | GF ALL                                    | GF ALL                                    |
| Glazing System Types             |                             |                   | Fixed                                     | Fixed                                     |
| Glass Types                      |                             |                   | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |
| Frame Types                      |                             |                   | Aluminium thermally broken                | Aluminium thermally broken                |
| Average Glazing U-Value (W/m².K) |                             |                   | 5.80                                      | 5.80                                      |
| Average Glazing SHGC             | 0.00                        | 0.00              | 0.45                                      | 0.45                                      |
| Shading Systems                  | Horizontal Device           | Horizontal Device | Horizontal Device                         | Horizontal Device                         |
| Wall Area (m²)                   | 784                         | 492.8             | 74.88                                     | 41.4                                      |
| Wall Types                       | Wall                        | Wall              | Wall                                      | Wall                                      |
| Methodology                      | Wall                        |                   |                                           |                                           |
| Wall Construction                | Internal Wall External Wall | Internal Wall     | External Wall                             | External Wall                             |
| Wall Thickness                   | 150                         | 150               | 150                                       | 150                                       |
| Average Wall R-value (m².K/W)    | 2.08                        | 2.08              | 2.08                                      | 2.08                                      |
| Solar Absorbance                 | 0.5                         | 0.5               | 0.5                                       | 0.5                                       |









|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                            |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
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| <div>ABCBC</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           | <div>Façade</div> <div>Report</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                            |      | <div>National Construction Code</div> |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Calculator</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                            |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Summary</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                            |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div><div>Date</div><div>11/05/2026</div></div> <div><div>Name</div><div>Shawn Sun</div></div> <div><div>Company</div><div>SLR Consulting</div></div> <div><div>Position</div><div>Sr Project Consultant</div></div> <div><div>Building Name / Address</div><div>173-183 Rickard Road<br/>Leppington, NSW</div></div> <div><div>Building State</div><div>NSW</div></div> <div><div>Climate Zone</div><div>Climate Zone 6 - Mild temperate</div></div> <div><div>Building Classification</div><div>Class 6 - department stores, shopping centres</div></div> <div><div>Storeys Above Ground</div><div>36</div></div> <div><div>Tool Version</div><div>1.5 (May 2024)</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           | <div>The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).</div> <div><div>Compliant Solution =</div><div>Non-Compliant Solution =</div></div> <table><tr><td></td><td>North</td><td>East</td><td>Method 1</td><td>South</td><td>West</td><td>Method 2</td><td>All</td></tr><tr><td>Wall-glazing U-Value (W/m².K)</td><td>0.95</td><td>0.48</td><td></td><td>4.27</td><td>0.48</td><td></td><td>1.70</td></tr><tr><td>Solar Admittance</td><td>0.02</td><td></td><td></td><td>0.13</td><td></td><td></td><td></td></tr><tr><td>AC Energy Value</td><td></td><td></td><td></td><td></td><td></td><td></td><td>18</td></tr></table> <div><div>Method 1</div><div><div>Wall-glazing U-Value</div><div>Solar Admittance</div></div></div> <div><div>Method 2</div><div><div>Wall-glazing U-Value - ALL</div><div>AC Energy Value</div></div></div> |                                           |                            |      |                                       |      |  | North | East | Method 1 | South | West              | Method 2 | All | Wall-glazing U-Value (W/m².K) | 0.95 | 0.48                    |     | 4.27 | 0.48 |    | 1.70               | Solar Admittance | 0.02 |        |  | 0.13                 |       |  |       | AC Energy Value |             |                                           |  |                                           |  |             | 18                         |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Method 1                                  | South                      | West | Method 2                              | All  |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall-glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.95                                      | 0.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           | 4.27                       | 0.48 |                                       | 1.70 |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Admittance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.02                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           | 0.13                       |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| AC Energy Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                            |      |                                       | 18   |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Details</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                            |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <table><tr><td></td><td>North</td><td>East</td><td>South</td><td>West</td></tr><tr><td>Glazing Area (m²)</td><td>24.44</td><td>0</td><td>114.21</td><td>0</td></tr><tr><td>Glazing to Façade Ratio</td><td>10%</td><td>0%</td><td>84%</td><td>0%</td></tr><tr><td>Glazing References</td><td>GF ALL</td><td></td><td>GF ALL</td><td></td></tr><tr><td>Glazing System Types</td><td>Fixed</td><td></td><td>Fixed</td><td></td></tr><tr><td>Glass Types</td><td>Double Glazed Unit - triple low-E coating</td><td></td><td>Double Glazed Unit - triple low-E coating</td><td></td></tr><tr><td>Frame Types</td><td>Aluminium thermally broken</td><td></td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td></tr><tr><td>Average Glazing U-Value (W/m².K)</td><td>5.00</td><td></td><td>5.00</td><td></td></tr><tr><td>Average Glazing SHGC</td><td>0.44</td><td>0.00</td><td>0.44</td><td>0.00</td></tr><tr><td>Shading Systems</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td></tr><tr><td>Wall Area (m²)</td><td>212.8</td><td>71.68</td><td>21.87</td><td>70.56</td></tr><tr><td>Wall Types</td><td>Wall</td><td>Wall</td><td>Wall</td><td>Wall</td></tr><tr><td>Methodology</td><td colspan="4">Wall</td></tr><tr><td>Wall Construction</td><td>External Wall</td><td>External Wall</td><td>External Wall</td><td>External Wall</td></tr><tr><td>Wall Thickness</td><td>150</td><td>150</td><td>150</td><td>150</td></tr><tr><td>Average Wall R-value (m².K/W)</td><td>2.08</td><td>2.08</td><td>2.08</td><td>2.08</td></tr><tr><td>Solar Absorptance</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td></tr></table> |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                            |      |                                       |      |  | North | East | South    | West  | Glazing Area (m²) | 24.44    | 0   | 114.21                        | 0    | Glazing to Façade Ratio | 10% | 0%   | 84%  | 0% | Glazing References | GF ALL           |      | GF ALL |  | Glazing System Types | Fixed |  | Fixed |                 | Glass Types | Double Glazed Unit - triple low-E coating |  | Double Glazed Unit - triple low-E coating |  | Frame Types | Aluminium thermally broken |  | Aluminium thermally broken | Aluminium thermally broken | Average Glazing U-Value (W/m².K) | 5.00 |  | 5.00 |  | Average Glazing SHGC | 0.44 | 0.00 | 0.44 | 0.00 | Shading Systems | Horizontal Device | Horizontal Device | Horizontal Device | Horizontal Device | Wall Area (m²) | 212.8 | 71.68 | 21.87 | 70.56 | Wall Types | Wall | Wall | Wall | Wall | Methodology | Wall |  |  |  | Wall Construction | External Wall | External Wall | External Wall | External Wall | Wall Thickness | 150 | 150 | 150 | 150 | Average Wall R-value (m².K/W) | 2.08 | 2.08 | 2.08 | 2.08 | Solar Absorptance | 0.5 | 0.5 | 0.5 | 0.5 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | South                                     | West                       |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24.44                                     | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 114.21                                    | 0                          |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing to Façade Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10%                                       | 0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 84%                                       | 0%                         |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | GF ALL                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GF ALL                                    |                            |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing System Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fixed                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Fixed                                     |                            |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glass Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Double Glazed Unit - triple low-E coating |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Double Glazed Unit - triple low-E coating |                            |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Frame Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Aluminium thermally broken                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Aluminium thermally broken                | Aluminium thermally broken |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5.00                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.00                                      |                            |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing SHGC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.44                                      | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.44                                      | 0.00                       |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Shading Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Horizontal Device                         | Horizontal Device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Horizontal Device                         | Horizontal Device          |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 212.8                                     | 71.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21.87                                     | 70.56                      |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Wall                                      | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wall                                      | Wall                       |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wall                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                            |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | External Wall                             | External Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | External Wall                             | External Wall              |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 150                                       | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 150                                       | 150                        |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Wall R-value (m².K/W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.08                                      | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.08                                      | 2.08                       |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Absorptance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.5                                       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.5                                       | 0.5                        |      |                                       |      |  |       |      |          |       |                   |          |     |                               |      |                         |     |      |      |    |                    |                  |      |        |  |                      |       |  |       |                 |             |                                           |  |                                           |  |             |                            |  |                            |                            |                                  |      |  |      |  |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |

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| <div>ABC</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | <div>Façade</div> <div>Report</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           | <div>National Construction Code</div>     |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Calculator</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Summary</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Date</div> <div>11/05/2026</div> <div>Name</div> <div>Shawn Sun</div> <div>Company</div> <div>SLR Consulting</div> <div>Position</div> <div>Sr Project Consultant</div> <div>Building Name / Address</div> <div>173-183 Rickard Road<br/>Leppington, NSW</div> <div>Building State</div> <div>NSW</div> <div>Climate Zone</div> <div>Climate Zone 6 - Mild temperate</div> <div>Building Classification</div> <div>Class 3 - hotel</div> <div>Storeys Above Ground</div> <div>36</div> <div>Tool Version</div> <div>1.5 (May 2024)</div> |                   | <div>The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).</div> <div><div>Compliant Solution =</div><div>Non-Compliant Solution =</div></div> <table><tr><td></td><td>North</td><td>East</td><td>Method 1</td><td>South</td><td>West</td><td>Method 2</td><td>All</td></tr><tr><td>Wall-glazing U-Value (W/m².K)</td><td>0.48</td><td>0.91</td><td>1.22</td><td>1.08</td><td>1.06</td><td></td><td></td></tr><tr><td>Solar Admittance</td><td></td><td>0.04</td><td>0.08</td><td>0.06</td><td></td><td></td><td></td></tr><tr><td>AC Energy Value</td><td></td><td></td><td></td><td></td><td></td><td></td><td>61</td></tr></table> <div><div>Method 1</div><div><div>Wall-glazing U-Value</div><div>Solar Admittance</div></div></div> <div><div>Method 2</div><div><div>Wall-glazing U-Value - ALL</div><div>AC Energy Value</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |                                           |      |          | North | East | Method 1 | South | West              | Method 2 | All  | Wall-glazing U-Value (W/m².K) | 0.48  | 0.91                    | 1.22 | 1.08 | 1.06 |     |                    | Solar Admittance |        | 0.04   | 0.08   | 0.06                 |  |       |       | AC Energy Value |             |  |                                           |                                           |                                           |             | 61 |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | North             | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Method 1                                  | South                                     | West | Method 2 | All   |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall-glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.48              | 0.91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.22                                      | 1.08                                      | 1.06 |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Admittance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   | 0.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.08                                      | 0.06                                      |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| AC Energy Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      |          | 61    |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Details</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   | <table><tr><td></td><td>North</td><td>East</td><td>South</td><td>West</td></tr><tr><td>Glazing Area (m²)</td><td>0</td><td>33.3</td><td>119.51</td><td>197.4</td></tr><tr><td>Glazing to Façade Ratio</td><td>0%</td><td>30%</td><td>62%</td><td>42%</td></tr><tr><td>Glazing References</td><td></td><td>GF ALL</td><td>GF ALL</td><td>GF ALL</td></tr><tr><td>Glazing System Types</td><td></td><td>Fixed</td><td>Fixed</td><td>Fixed</td></tr><tr><td>Glass Types</td><td></td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td></tr><tr><td>Frame Types</td><td></td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td></tr><tr><td>Average Glazing U-Value (W/m².K)</td><td></td><td>1.90</td><td>1.90</td><td>1.90</td></tr><tr><td>Average Glazing SHGC</td><td>0.00</td><td>0.20</td><td>0.20</td><td>0.20</td></tr><tr><td>Shading Systems</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td></tr><tr><td>Wall Area (m²)</td><td>52.64</td><td>77.58</td><td>108.97</td><td>270.76</td></tr><tr><td>Wall Types</td><td>Wall</td><td>Wall</td><td>Wall</td><td>Wall</td></tr><tr><td>Methodology</td><td colspan="4">Wall</td></tr><tr><td>Wall Construction</td><td>Internal Wall</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td></tr><tr><td>Wall Thickness</td><td>150</td><td>150</td><td>150</td><td>150</td></tr><tr><td>Average Wall R-value (m².K/W)</td><td>2.08</td><td>2.08</td><td>2.08</td><td>2.08</td></tr><tr><td>Solar Absorptance</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td></tr></table> |                                           |                                           |      |          | North | East | South    | West  | Glazing Area (m²) | 0        | 33.3 | 119.51                        | 197.4 | Glazing to Façade Ratio | 0%   | 30%  | 62%  | 42% | Glazing References |                  | GF ALL | GF ALL | GF ALL | Glazing System Types |  | Fixed | Fixed | Fixed           | Glass Types |  | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Frame Types |    | Aluminium thermally broken | Aluminium thermally broken | Aluminium thermally broken | Average Glazing U-Value (W/m².K) |  | 1.90 | 1.90 | 1.90 | Average Glazing SHGC | 0.00 | 0.20 | 0.20 | 0.20 | Shading Systems | Horizontal Device | Horizontal Device | Horizontal Device | Horizontal Device | Wall Area (m²) | 52.64 | 77.58 | 108.97 | 270.76 | Wall Types | Wall | Wall | Wall | Wall | Methodology | Wall |  |  |  | Wall Construction | Internal Wall | External Wall Internal Wall | External Wall Internal Wall | External Wall Internal Wall | Wall Thickness | 150 | 150 | 150 | 150 | Average Wall R-value (m².K/W) | 2.08 | 2.08 | 2.08 | 2.08 | Solar Absorptance | 0.5 | 0.5 | 0.5 | 0.5 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | North             | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | South                                     | West                                      |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                 | 33.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 119.51                                    | 197.4                                     |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing to Façade Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0%                | 30%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 62%                                       | 42%                                       |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | GF ALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GF ALL                                    | GF ALL                                    |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing System Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fixed                                     | Fixed                                     |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glass Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   | Double Glazed Unit - triple low-E coating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Frame Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   | Aluminium thermally broken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Aluminium thermally broken                | Aluminium thermally broken                |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   | 1.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.90                                      | 1.90                                      |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing SHGC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.00              | 0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.20                                      | 0.20                                      |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Shading Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Horizontal Device | Horizontal Device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Horizontal Device                         | Horizontal Device                         |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52.64             | 77.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 108.97                                    | 270.76                                    |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Wall              | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Wall                                      | Wall                                      |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Wall              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Internal Wall     | External Wall Internal Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | External Wall Internal Wall               | External Wall Internal Wall               |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 150               | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 150                                       | 150                                       |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Wall R-value (m².K/W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.08              | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.08                                      | 2.08                                      |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Absorptance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.5               | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.5                                       | 0.5                                       |      |          |       |      |          |       |                   |          |      |                               |       |                         |      |      |      |     |                    |                  |        |        |        |                      |  |       |       |                 |             |  |                                           |                                           |                                           |             |    |                            |                            |                            |                                  |  |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |        |        |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |

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| <div>ABCB</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           | <div>Façade</div> <div>Report</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           | <div>National Construction Code</div>     |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Calculator</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Summary</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Date</div> <div>11/05/2026</div> <div>Name</div> <div>Shawn Sun</div> <div>Company</div> <div>SLR Consulting</div> <div>Position</div> <div>Sr Project Consultant</div> <div>Building Name / Address</div> <div>173-183 Rickard Road<br/>Leppington, NSW</div> <div>Building State</div> <div>NSW</div> <div>Climate Zone</div> <div>Climate Zone 6 - Mild<br/>temperate</div> <div>Building Classification</div> <div>Class 6 - department stores,<br/>shopping centres</div> <div>Storeys Above Ground</div> <div>36</div> <div>Tool Version</div> <div>1.5 (May 2024)</div> |                                           | <div>The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).</div> <div>Compliant Solution = <div></div></div> <div>Non-Compliant Solution = <div></div></div> <table><tr><td></td><td>North</td><td>East</td><td>Method 1</td><td>South</td><td>West</td><td>Method 2</td></tr><tr><td>Wall-glazing U-Value (W/m².K)</td><td>1.83</td><td>2.61</td><td></td><td>1.81</td><td>1.47</td><td>1.93</td></tr><tr><td>Solar Admittance</td><td>0.10</td><td>0.09</td><td></td><td>0.09</td><td>0.10</td><td></td></tr><tr><td>AC Energy Value</td><td colspan="5"></td><td>80</td></tr></table> <div>Method 1</div> <div><div>Wall-glazing U-Value</div><div>Solar Admittance</div></div> <div>Method 2</div> <div><div>Wall-glazing U-Value - ALL</div><div>AC Energy Value</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                           |      |          | North | East | Method 1 | South | West              | Method 2 | Wall-glazing U-Value (W/m².K) | 1.83 | 2.61 |                         | 1.81 | 1.47 | 1.93 | Solar Admittance | 0.10               | 0.09   |        | 0.09   | 0.10   |                      | AC Energy Value |       |       |       |             |                                           | 80                                        |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Method 1                                  | South                                     | West | Method 2 |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall-glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.83                                      | 2.61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           | 1.81                                      | 1.47 | 1.93     |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Admittance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.10                                      | 0.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           | 0.09                                      | 0.10 |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| AC Energy Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      | 80       |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Details</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           | <table><tr><td></td><td>North</td><td>East</td><td>South</td><td>West</td></tr><tr><td>Glazing Area (m²)</td><td>59.2</td><td>82.51</td><td>59.2</td><td>37</td></tr><tr><td>Glazing to Façade Ratio</td><td>42%</td><td>66%</td><td>41%</td><td>31%</td></tr><tr><td>Glazing References</td><td>GF ALL</td><td>GF ALL</td><td>GF ALL</td><td>GF ALL</td></tr><tr><td>Glazing System Types</td><td>Fixed</td><td>Fixed</td><td>Fixed</td><td>Fixed</td></tr><tr><td>Glass Types</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td></tr><tr><td>Frame Types</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td></tr><tr><td>Average Glazing U-Value (W/m².K)</td><td>3.70</td><td>3.70</td><td>3.70</td><td>3.70</td></tr><tr><td>Average Glazing SHGC</td><td>0.40</td><td>0.40</td><td>0.40</td><td>0.40</td></tr><tr><td>Shading Systems</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td></tr><tr><td>Wall Area (m²)</td><td>81.92</td><td>42.37</td><td>84.16</td><td>82.84</td></tr><tr><td>Wall Types</td><td>Wall</td><td>Wall</td><td>Wall</td><td>Wall</td></tr><tr><td>Methodology</td><td colspan="4">Wall</td></tr><tr><td>Wall Construction</td><td>External Wall Internal Wall</td><td>External Wall</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td></tr><tr><td>Wall Thickness</td><td>150</td><td>150</td><td>150</td><td>150</td></tr><tr><td>Average Wall R-value (m².K/W)</td><td>2.08</td><td>2.08</td><td>2.08</td><td>2.08</td></tr><tr><td>Solar Absorptance</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td></tr></table> |                                           |                                           |      |          | North | East | South    | West  | Glazing Area (m²) | 59.2     | 82.51                         | 59.2 | 37   | Glazing to Façade Ratio | 42%  | 66%  | 41%  | 31%              | Glazing References | GF ALL | GF ALL | GF ALL | GF ALL | Glazing System Types | Fixed           | Fixed | Fixed | Fixed | Glass Types | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Frame Types | Aluminium thermally broken | Aluminium thermally broken | Aluminium thermally broken | Aluminium thermally broken | Average Glazing U-Value (W/m².K) | 3.70 | 3.70 | 3.70 | 3.70 | Average Glazing SHGC | 0.40 | 0.40 | 0.40 | 0.40 | Shading Systems | Horizontal Device | Horizontal Device | Horizontal Device | Horizontal Device | Wall Area (m²) | 81.92 | 42.37 | 84.16 | 82.84 | Wall Types | Wall | Wall | Wall | Wall | Methodology | Wall |  |  |  | Wall Construction | External Wall Internal Wall | External Wall | External Wall Internal Wall | External Wall Internal Wall | Wall Thickness | 150 | 150 | 150 | 150 | Average Wall R-value (m².K/W) | 2.08 | 2.08 | 2.08 | 2.08 | Solar Absorptance | 0.5 | 0.5 | 0.5 | 0.5 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | South                                     | West                                      |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 59.2                                      | 82.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 59.2                                      | 37                                        |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing to Façade Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 42%                                       | 66%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 41%                                       | 31%                                       |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | GF ALL                                    | GF ALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GF ALL                                    | GF ALL                                    |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing System Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fixed                                     | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fixed                                     | Fixed                                     |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glass Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Frame Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Aluminium thermally broken                | Aluminium thermally broken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Aluminium thermally broken                | Aluminium thermally broken                |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.70                                      | 3.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.70                                      | 3.70                                      |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing SHGC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.40                                      | 0.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.40                                      | 0.40                                      |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Shading Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Horizontal Device                         | Horizontal Device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Horizontal Device                         | Horizontal Device                         |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 81.92                                     | 42.37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 84.16                                     | 82.84                                     |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Wall                                      | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Wall                                      | Wall                                      |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wall                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                                           |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | External Wall Internal Wall               | External Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | External Wall Internal Wall               | External Wall Internal Wall               |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 150                                       | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 150                                       | 150                                       |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Wall R-value (m².K/W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.08                                      | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.08                                      | 2.08                                      |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Absorptance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.5                                       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.5                                       | 0.5                                       |      |          |       |      |          |       |                   |          |                               |      |      |                         |      |      |      |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |       |       |            |      |      |      |      |             |      |  |  |  |                   |                             |               |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |

UG – Retail (NW-W)



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| <div>ABCB</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           | <div>Façade</div> <div>Report</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           | <div>National Construction Code</div>     |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Calculator</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                           |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Summary</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                           |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Date</div> <div>11/05/2026</div> <div>Name</div> <div>Shawn Sun</div> <div>Company</div> <div>SLR Consulting</div> <div>Position</div> <div>Sr Project Consultant</div> <div>Building Name / Address</div> <div>173-183 Rickard Road<br/>Leppington, NSW</div> <div>Building State</div> <div>NSW</div> <div>Climate Zone</div> <div>Climate Zone 6 - Mild<br/>temperate</div> <div>Building Classification</div> <div>Class 6 - department stores,<br/>shopping centres</div> <div>Storeys Above Ground</div> <div>36</div> <div>Tool Version</div> <div>1.5 (May 2024)</div> |                                           | <div>The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).</div> <div><div>Compliant Solution =</div><div>Non-Compliant Solution =</div></div> <table><tr><td></td><td>North</td><td>East</td><td>Method 1</td><td>South</td><td>West</td><td>Method 2</td><td>All</td></tr><tr><td>Wall-glazing U-Value (W/m².K)</td><td>2.13</td><td>1.55</td><td></td><td>2.14</td><td>1.40</td><td></td><td>1.73</td></tr><tr><td>Solar Admittance</td><td>0.10</td><td>0.21</td><td></td><td>0.09</td><td>0.09</td><td></td><td></td></tr><tr><td>AC Energy Value</td><td></td><td></td><td></td><td></td><td></td><td></td><td>256</td></tr></table> <div><div>Method 1</div><div><div>Wall-glazing U-Value</div><div>Solar Admittance</div></div></div> <div><div>Method 2</div><div><div>Wall-glazing U-Value - ALL</div><div>AC Energy Value</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                           |      |          | North | East | Method 1 | South | West              | Method 2 | All    | Wall-glazing U-Value (W/m².K) | 2.13   | 1.55                    |     | 2.14 | 1.40 |     | 1.73               | Solar Admittance | 0.10   | 0.21   |        | 0.09                 | 0.09  |       |       | AC Energy Value |             |                                           |                                           |                                           |                                           |             | 256                        |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Method 1                                  | South                                     | West | Method 2 | All   |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall-glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.13                                      | 1.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           | 2.14                                      | 1.40 |          | 1.73  |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Admittance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.10                                      | 0.21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           | 0.09                                      | 0.09 |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| AC Energy Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                           |      |          | 256   |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Details</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                           |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           | <table><tr><td></td><td>North</td><td>East</td><td>South</td><td>West</td></tr><tr><td>Glazing Area (m²)</td><td>128.76</td><td>116.92</td><td>125.43</td><td>116.18</td></tr><tr><td>Glazing to Façade Ratio</td><td>51%</td><td>33%</td><td>51%</td><td>29%</td></tr><tr><td>Glazing References</td><td>GF ALL</td><td>GF ALL</td><td>GF ALL</td><td>GF ALL</td></tr><tr><td>Glazing System Types</td><td>Fixed</td><td>Fixed</td><td>Fixed</td><td>Fixed</td></tr><tr><td>Glass Types</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td></tr><tr><td>Frame Types</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td></tr><tr><td>Average Glazing U-Value (W/m².K)</td><td>3.70</td><td>3.70</td><td>3.70</td><td>3.70</td></tr><tr><td>Average Glazing SHGC</td><td>0.40</td><td>0.40</td><td>0.40</td><td>0.40</td></tr><tr><td>Shading Systems</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td></tr><tr><td>Wall Area (m²)</td><td>122.12</td><td>235.88</td><td>118.17</td><td>290.38</td></tr><tr><td>Wall Types</td><td>Wall</td><td>Wall</td><td>Wall</td><td>Wall</td></tr><tr><td>Methodology</td><td colspan="4">Wall</td></tr><tr><td>Wall Construction</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td></tr><tr><td>Wall Thickness</td><td>150</td><td>150</td><td>150</td><td>150</td></tr><tr><td>Average Wall R-value (m².K/W)</td><td>2.08</td><td>2.08</td><td>2.08</td><td>2.08</td></tr><tr><td>Solar Absorptance</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td></tr></table> |                                           |                                           |      |          | North | East | South    | West  | Glazing Area (m²) | 128.76   | 116.92 | 125.43                        | 116.18 | Glazing to Façade Ratio | 51% | 33%  | 51%  | 29% | Glazing References | GF ALL           | GF ALL | GF ALL | GF ALL | Glazing System Types | Fixed | Fixed | Fixed | Fixed           | Glass Types | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Frame Types | Aluminium thermally broken | Aluminium thermally broken | Aluminium thermally broken | Aluminium thermally broken | Average Glazing U-Value (W/m².K) | 3.70 | 3.70 | 3.70 | 3.70 | Average Glazing SHGC | 0.40 | 0.40 | 0.40 | 0.40 | Shading Systems | Horizontal Device | Horizontal Device | Horizontal Device | Horizontal Device | Wall Area (m²) | 122.12 | 235.88 | 118.17 | 290.38 | Wall Types | Wall | Wall | Wall | Wall | Methodology | Wall |  |  |  | Wall Construction | External Wall Internal Wall | External Wall Internal Wall | External Wall Internal Wall | External Wall Internal Wall | Wall Thickness | 150 | 150 | 150 | 150 | Average Wall R-value (m².K/W) | 2.08 | 2.08 | 2.08 | 2.08 | Solar Absorptance | 0.5 | 0.5 | 0.5 | 0.5 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | South                                     | West                                      |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 128.76                                    | 116.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 125.43                                    | 116.18                                    |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing to Façade Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 51%                                       | 33%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 51%                                       | 29%                                       |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | GF ALL                                    | GF ALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GF ALL                                    | GF ALL                                    |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing System Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fixed                                     | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Fixed                                     | Fixed                                     |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glass Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Frame Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Aluminium thermally broken                | Aluminium thermally broken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Aluminium thermally broken                | Aluminium thermally broken                |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.70                                      | 3.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.70                                      | 3.70                                      |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing SHGC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.40                                      | 0.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.40                                      | 0.40                                      |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Shading Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Horizontal Device                         | Horizontal Device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Horizontal Device                         | Horizontal Device                         |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 122.12                                    | 235.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 118.17                                    | 290.38                                    |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Wall                                      | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Wall                                      | Wall                                      |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wall                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |                                           |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | External Wall Internal Wall               | External Wall Internal Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | External Wall Internal Wall               | External Wall Internal Wall               |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 150                                       | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 150                                       | 150                                       |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Wall R-value (m².K/W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.08                                      | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.08                                      | 2.08                                      |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Absorptance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.5                                       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.5                                       | 0.5                                       |      |          |       |      |          |       |                   |          |        |                               |        |                         |     |      |      |     |                    |                  |        |        |        |                      |       |       |       |                 |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |

UG – Retail (NW-N)



## Project Summary

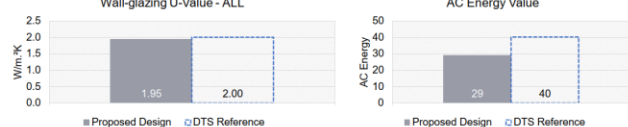
**Tool Version**  
1.5 (May 2024)

Compliant Solution =   
Non-Compliant Solution = 

### Method 1



### Method 2



## Project Details

|                                  | North                                     | East                                      | South                                     | West                                      |
|----------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| Glazing Area (m²)                | 28.86                                     | 34.78                                     | 28.86                                     | 34.78                                     |
| Glazing to Façade Ratio          | 66%                                       | 66%                                       | 66%                                       | 66%                                       |
| Glazing References               | GF ALL                                    | GF ALL                                    | GF ALL                                    | GF ALL                                    |
| Glazing System Types             | Fixed                                     | Fixed                                     | Fixed                                     | Fixed                                     |
| Glass Types                      | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |
| Frame Types                      | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken                |
| Average Glazing U-Value (W/m².K) | 2.70                                      | 2.70                                      | 2.70                                      | 2.70                                      |
| Average Glazing SHGC             | 0.40                                      | 0.40                                      | 0.40                                      | 0.40                                      |
| Shading Systems                  | Horizontal Device                         | Horizontal Device                         | Horizontal Device                         | Horizontal Device                         |
| Wall Area (m²)                   | 14.82                                     | 17.86                                     | 14.82                                     | 17.86                                     |
| Wall Types                       | Wall                                      | Wall                                      | Wall                                      | Wall                                      |
| Methodology                      | Wall                                      |                                           |                                           |                                           |
| Wall Construction                | External Wall                             | External Wall                             | External Wall                             | External Wall                             |
| Wall Thickness                   | 150                                       | 150                                       | 150                                       | 150                                       |
| Average Wall R-value (m².K/W)    | 2.08                                      | 2.08                                      | 2.08                                      | 2.08                                      |
| Solar Absorbance                 | 0.5                                       | 0.5                                       | 0.5                                       | 0.5                                       |







## Façade

Report



Calculator

### Project Summary

Date  
11/05/2026

Name  
Shawn Sun

Company  
SLR Consulting

Position  
Sr Project Consultant

Building Name / Address  
173-183 Rickard Road  
Leppington, NSW

Building State  
NSW

Climate Zone  
Climate Zone 6 - Mild  
temperate

Building Classification  
Class 6 - department stores,  
shopping centres

Storeys Above Ground  
36

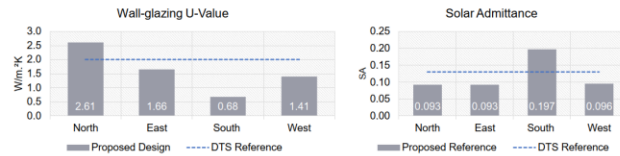
Tool Version  
1.5 (May 2024)

The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).

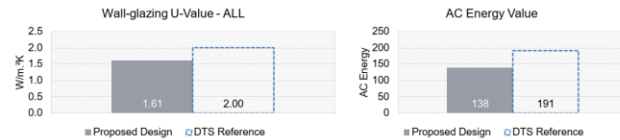
Compliant Solution =    
Non-Compliant Solution =  

|                               | North | East | Method 1<br>South | West | Method 2<br>All |
|-------------------------------|-------|------|-------------------|------|-----------------|
| Wall-glazing U-Value (W/m².K) | 2.61  | 1.66 | 0.68              | 1.41 | 1.61            |
| Solar Admittance              | 0.09  | 0.09 | 0.20              | 0.10 |                 |
| AC Energy Value               |       |      |                   |      | 138             |

#### Method 1



#### Method 2



### Project Details

|                                  | North                                     | East                                      | South                                     | West                                      |
|----------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| Glazing Area (m²)                | 160.58                                    | 107.3                                     | 12.95                                     | 82.51                                     |
| Glazing to Façade Ratio          | 66%                                       | 37%                                       | 6%                                        | 29%                                       |
| Glazing References               | GF ALL                                    | GF ALL                                    | GF ALL                                    | GF ALL                                    |
| Glazing System Types             | Fixed                                     | Fixed                                     | Fixed                                     | Fixed                                     |
| Glass Types                      | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |
| Frame Types                      | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken                |
| Average Glazing U-Value (W/m².K) | 3.70                                      | 3.70                                      | 3.70                                      | 3.70                                      |
| Average Glazing SHGC             | 0.40                                      | 0.40                                      | 0.40                                      | 0.40                                      |
| Shading Systems                  | Horizontal Device                         | Horizontal Device                         | Horizontal Device                         | Horizontal Device                         |
| Wall Area (m²)                   | 82.46                                     | 186.14                                    | 194.74                                    | 204.77                                    |
| Wall Types                       | Wall                                      | Wall                                      | Wall                                      | Wall                                      |
| Methodology                      | Wall                                      |                                           |                                           |                                           |
| Wall Construction                | External Wall                             | External Wall Internal Wall               | External Wall Internal Wall               | External Wall Internal Wall               |
| Wall Thickness                   | 150                                       | 150                                       | 150                                       | 150                                       |
| Average Wall R-value (m².K/W)    | 2.08                                      | 2.08                                      | 2.08                                      | 2.08                                      |
| Solar Absorptance                | 0.5                                       | 0.5                                       | 0.5                                       | 0.5                                       |

UG – Retail (SW)



## Project Summary

Date  
11/05/2026

**Name**  
Shawn Sun

**Company**  
SLR Consulting

**Position**  
Sr Project Consultant

**Building Name / Address**  
173-183 Rickard Road  
Leppington, NSW

### Building State

**Climate Zone**  
Climate Zone 6 - Mild  
temperate

**Building Classification**  
Class 6 - department stores,  
shopping centres

## Storeys Above Ground

**Tool Version**  
1.5 (May 2024)

The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).

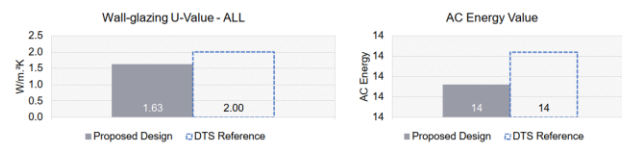
Compliant Solution =  
Non-Compliant Solution =

|                               | North | East | Method 1<br>South | West | Method 2<br>All |
|-------------------------------|-------|------|-------------------|------|-----------------|
| Wall-glazing U-Value (W/m².K) | 0.48  | 0.48 | 4.27              | 0.48 | 1.63            |
| Solar Admittance              |       |      |                   |      |                 |
| AC Energy Value               |       |      |                   |      | 14              |

### Method 1



### Method 2



### Project Details

|                                  | North         |        | East          |        | South                                     |        | West                       |        |
|----------------------------------|---------------|--------|---------------|--------|-------------------------------------------|--------|----------------------------|--------|
| Glazing Area (m²)                | 0             |        | 0             |        | 88.83                                     |        | 0                          |        |
| Glazing to Façade Ratio          | 0%            |        | 0%            |        | 84%                                       |        | 0%                         |        |
| Glazing References               |               |        |               |        | GF ALL                                    |        |                            |        |
| Glazing System Types             |               |        |               |        | Fixed                                     |        |                            |        |
| Glass Types                      |               |        |               |        | Double Glazed Unit - triple low-E coating |        |                            |        |
| Frame Types                      |               |        |               |        | Aluminium thermally broken                |        | Aluminium thermally broken |        |
| Average Glazing U-Value (W/m².K) |               |        |               |        | 5.00                                      |        |                            |        |
| Average Glazing SHGC             | 0.00          |        | 0.00          |        | 0.44                                      |        | 0.00                       |        |
| Shading Systems                  | Horizontal    | Device | Horizontal    | Device | Horizontal                                | Device | Horizontal                 | Device |
| Wall Area (m²)                   | 106.4         |        | 68.88         |        | 17.01                                     |        | 68.88                      |        |
| Wall Types                       | Wall          |        | Wall          |        | Wall                                      |        | Wall                       |        |
| Methodology                      | Wall          |        |               |        |                                           |        |                            |        |
| Wall Construction                | External Wall |        | External Wall |        | External Wall                             |        | External Wall              |        |
| Wall Thickness                   | 150           |        | 150           |        | 150                                       |        | 150                        |        |
| Average Wall R-value (m².K/W)    | 2.08          |        | 2.08          |        | 2.08                                      |        | 2.08                       |        |
| Solar Absorbance                 | 0.5           |        | 0.5           |        | 0.5                                       |        | 0.5                        |        |

UG – Retail (N)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                           |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------|------|----------|-------|------|----------|-------|-------------------|----------|-----|-------------------------------|-------|-------------------------|-----|------|------|------|--------------------|------------------|------|--|--------|----------------------|-------|--|--|-----------------|-------------|-------------------------------------------|--|--|-------------------------------------------|-------------|----------------------------|--|--|--|----------------------------------|------|--|--|------|----------------------|------|------|------|------|-----------------|-------------------|-------------------|-------------------|-------------------|----------------|-------|-------|------|------|------------|------|------|------|------|-------------|------|--|--|--|-------------------|---------------|---------------|---------------|---------------|----------------|-----|-----|-----|-----|-------------------------------|------|------|------|------|-------------------|-----|-----|-----|-----|
| <div><div><div><div><div><div></div><div>ABCBS</div></div></div><div><div><div></div><div>Façade</div><div>Report</div></div></div><div><div><div></div><div>National Construction Code</div></div></div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                           | <div>Calculator</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                           |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Summary</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                           |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div><div><div>Date</div><div>11/05/2026</div></div><div><div>Name</div><div>Shawn Sun</div></div><div><div>Company</div><div>SLR Consulting</div></div><div><div>Position</div><div>Sr Project Consultant</div></div><div><div>Building Name / Address</div><div>173-183 Rickard Road<br/>Leppington, NSW</div></div><div><div>Building State</div><div>NSW</div></div><div><div>Climate Zone</div><div>Climate Zone 6 - Mild<br/>temperate</div></div><div><div>Building Classification</div><div>Class 6 - department stores,<br/>shopping centres</div></div><div><div>Storeys Above Ground</div><div>36</div></div><div><div>Tool Version</div><div>1.5 (May 2024)</div></div></div> |                                           | <div><div>The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).</div><div><div>Compliant Solution =</div><div>Non-Compliant Solution =</div></div><table><tr><td></td><td>North</td><td>East</td><td>Method 1</td><td>South</td><td>West</td><td>Method 2</td><td>All</td></tr><tr><td>Wall-glazing U-Value (W/m².K)</td><td>2.60</td><td>0.48</td><td></td><td>0.48</td><td>2.60</td><td>1.99</td><td></td></tr><tr><td>Solar Admittance</td><td>0.12</td><td></td><td></td><td></td><td>0.12</td><td></td><td></td></tr><tr><td>AC Energy Value</td><td></td><td></td><td></td><td></td><td></td><td>43</td><td></td></tr></table><div><div>Method 1</div><div><div>Wall-glazing U-Value</div><div>Solar Admittance</div></div></div><div><div>Method 2</div><div><div>Wall-glazing U-Value - ALL</div><div>AC Energy Value</div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                                           |      |          | North | East | Method 1 | South | West              | Method 2 | All | Wall-glazing U-Value (W/m².K) | 2.60  | 0.48                    |     | 0.48 | 2.60 | 1.99 |                    | Solar Admittance | 0.12 |  |        |                      | 0.12  |  |  | AC Energy Value |             |                                           |  |  |                                           | 43          |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Method 1          | South                                     | West | Method 2 | All   |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall-glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.60                                      | 0.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   | 0.48                                      | 2.60 | 1.99     |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Admittance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.12                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                           | 0.12 |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| AC Energy Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                           |      | 43       |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Details</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                           |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           | <table><tr><td></td><td>North</td><td>East</td><td>South</td><td>West</td></tr><tr><td>Glazing Area (m²)</td><td>107.16</td><td>0</td><td>0</td><td>43.71</td></tr><tr><td>Glazing to Façade Ratio</td><td>84%</td><td>0%</td><td>0%</td><td>84%</td></tr><tr><td>Glazing References</td><td>GF ALL</td><td></td><td></td><td>GF ALL</td></tr><tr><td>Glazing System Types</td><td>Fixed</td><td></td><td></td><td>Fixed</td></tr><tr><td>Glass Types</td><td>Double Glazed Unit - triple low-E coating</td><td></td><td></td><td>Double Glazed Unit - triple low-E coating</td></tr><tr><td>Frame Types</td><td>Aluminium thermally broken</td><td></td><td></td><td></td></tr><tr><td>Average Glazing U-Value (W/m².K)</td><td>3.00</td><td></td><td></td><td>3.00</td></tr><tr><td>Average Glazing SHGC</td><td>0.41</td><td>0.00</td><td>0.00</td><td>0.41</td></tr><tr><td>Shading Systems</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td></tr><tr><td>Wall Area (m²)</td><td>20.52</td><td>21.84</td><td>50.4</td><td>8.37</td></tr><tr><td>Wall Types</td><td>Wall</td><td>Wall</td><td>Wall</td><td>Wall</td></tr><tr><td>Methodology</td><td colspan="4">Wall</td></tr><tr><td>Wall Construction</td><td>External Wall</td><td>Internal Wall</td><td>Internal Wall</td><td>Internal Wall</td></tr><tr><td>Wall Thickness</td><td>150</td><td>150</td><td>150</td><td>150</td></tr><tr><td>Average Wall R-value (m².K/W)</td><td>2.08</td><td>2.08</td><td>2.08</td><td>2.08</td></tr><tr><td>Solar Absorptance</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td></tr></table> |                   |                                           |      |          | North | East | South    | West  | Glazing Area (m²) | 107.16   | 0   | 0                             | 43.71 | Glazing to Façade Ratio | 84% | 0%   | 0%   | 84%  | Glazing References | GF ALL           |      |  | GF ALL | Glazing System Types | Fixed |  |  | Fixed           | Glass Types | Double Glazed Unit - triple low-E coating |  |  | Double Glazed Unit - triple low-E coating | Frame Types | Aluminium thermally broken |  |  |  | Average Glazing U-Value (W/m².K) | 3.00 |  |  | 3.00 | Average Glazing SHGC | 0.41 | 0.00 | 0.00 | 0.41 | Shading Systems | Horizontal Device | Horizontal Device | Horizontal Device | Horizontal Device | Wall Area (m²) | 20.52 | 21.84 | 50.4 | 8.37 | Wall Types | Wall | Wall | Wall | Wall | Methodology | Wall |  |  |  | Wall Construction | External Wall | Internal Wall | Internal Wall | Internal Wall | Wall Thickness | 150 | 150 | 150 | 150 | Average Wall R-value (m².K/W) | 2.08 | 2.08 | 2.08 | 2.08 | Solar Absorptance | 0.5 | 0.5 | 0.5 | 0.5 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | South             | West                                      |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 107.16                                    | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                 | 43.71                                     |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing to Façade Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 84%                                       | 0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0%                | 84%                                       |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GF ALL                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   | GF ALL                                    |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing System Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fixed                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   | Fixed                                     |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glass Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Double Glazed Unit - triple low-E coating |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   | Double Glazed Unit - triple low-E coating |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Frame Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Aluminium thermally broken                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                           |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.00                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   | 3.00                                      |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing SHGC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.41                                      | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.00              | 0.41                                      |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Shading Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Horizontal Device                         | Horizontal Device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Horizontal Device | Horizontal Device                         |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20.52                                     | 21.84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50.4              | 8.37                                      |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Wall                                      | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Wall              | Wall                                      |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Wall                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                           |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | External Wall                             | Internal Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Internal Wall     | Internal Wall                             |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 150                                       | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 150               | 150                                       |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Wall R-value (m².K/W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.08                                      | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.08              | 2.08                                      |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Absorptance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.5                                       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.5               | 0.5                                       |      |          |       |      |          |       |                   |          |     |                               |       |                         |     |      |      |      |                    |                  |      |  |        |                      |       |  |  |                 |             |                                           |  |  |                                           |             |                            |  |  |  |                                  |      |  |  |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |       |      |      |            |      |      |      |      |             |      |  |  |  |                   |               |               |               |               |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |

UG – Retail (S)







## Project Summary

**Date**  
11/05/2026

**Name**  
Shawn Sun

**Company**  
SLR Consulting

**Position**  
Sr Project Consultant

**Building Name / Address**  
173-183 Rickard Road  
Leppington, NSW

**Building State**  
NSW

**Climate Zone**  
Climate Zone 6 - Mild  
temperate

### Building Classification

Class 3 - hotel

**Storeys Above Ground**  
36

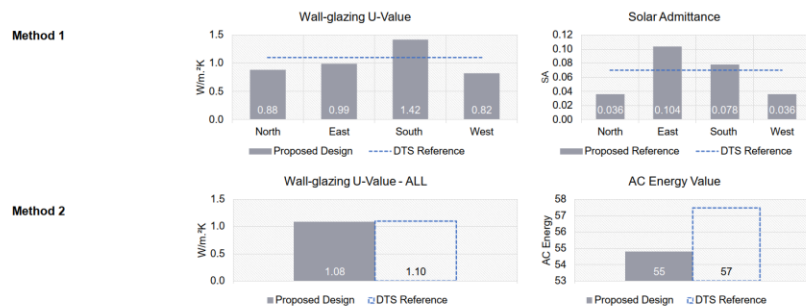
**Tool Version**  
1.5 (May 2024)

The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).

Compliant Solution = 

Non-Compliant Solution = 

|                               | Method 1 |      | Method 2 |      |      |
|-------------------------------|----------|------|----------|------|------|
|                               | North    | East | South    | West | All  |
| Wall-glazing U-Value (W/m².K) | 0.88     | 0.99 | 1.42     | 0.82 | 1.08 |
| Solar Admittance              | 0.04     | 0.10 | 0.08     | 0.04 |      |
| AC Energy Value               |          |      |          |      | 55   |



### Project Details

|                                  | North                                     | East                                      | South                                     | West                                      |
|----------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| Glazing Area (m²)                | 31.32                                     | 65.54                                     | 146.89                                    | 35.67                                     |
| Glazing to Façade Ratio          | 28%                                       | 36%                                       | 66%                                       | 24%                                       |
| Glazing References               | GF ALL                                    | GF ALL                                    | GF ALL                                    | GF ALL                                    |
| Glazing System Types             | Fixed                                     | Fixed                                     | Fixed                                     | Fixed                                     |
| Glass Types                      | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |
| Frame Types                      | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken                |
| Average Glazing U-Value (W/m².K) | 1.90                                      | 1.90                                      | 1.90                                      | 1.90                                      |
| Average Glazing SHGC             | 0.20                                      | 0.20                                      | 0.20                                      | 0.20                                      |
| Shading Systems                  | Horizontal Device                         | Horizontal Device                         | Horizontal Device                         | Horizontal Device                         |
| Wall Area (m²)                   | 79                                        | 117.02                                    | 75.43                                     | 112.73                                    |
| Wall Types                       | Wall                                      | Wall                                      | Wall                                      | Wall                                      |
| Methodology                      | Wall                                      |                                           |                                           |                                           |
| Wall Construction                | External Wall Internal Wall               | External Wall Internal Wall               | External Wall                             | External Wall                             |
| Wall Thickness                   | 150                                       | 150                                       | 150                                       | 150                                       |
| Average Wall R-value (m².K/W)    | 2.08                                      | 2.08                                      | 2.08                                      | 2.08                                      |
| Solar Absorbance                 | 0.5                                       | 0.5                                       | 0.5                                       | 0.5                                       |





# Faade

Report



Calculator

## Project Summary

**Date**  
11/05/2026

**Name**  
Shawn Sun

**Company**  
SLR Consulting

**Position**  
Sr Project Consultant

**Building Name / Address**  
173-183 Rickard Road  
Leppington, NSW

**Building State**  
NSW

**Climate Zone**  
Climate Zone 6 - Mild  
temperate

**Building Classification**  
Class 3 - hotel

**Storeys Above Ground**  
36

**Tool Version**  
1.5 (May 2024)

The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).

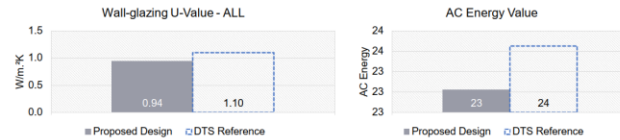
Compliant Solution =    
Non-Compliant Solution =  

|                                            | North | East | Method 1<br>South | West | Method 2<br>All |
|--------------------------------------------|-------|------|-------------------|------|-----------------|
| Wall-glazing U-Value (W/m <sup>2</sup> .K) | 1.77  | 1.66 | 0.67              | 1.66 | 0.94            |
| Solar Admittance                           | 0.05  | 0.08 | 0.01              | 0.08 |                 |
| AC Energy Value                            |       |      |                   |      | 23              |

### Method 1



### Method 2



## Project Details

|                                               | North                                     | East                                      | South                                     | West                                      |
|-----------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| Glazing Area (m <sup>2</sup> )                | 73.2                                      | 68.8                                      | 88.84                                     | 68.8                                      |
| Glazing to Faade Ratio                       | 91%                                       | 83%                                       | 13%                                       | 83%                                       |
| Glazing References                            | GF ALL                                    | GF ALL                                    | GF ALL                                    | GF ALL                                    |
| Glazing System Types                          | Fixed                                     | Fixed                                     | Fixed                                     | Fixed                                     |
| Glass Types                                   | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |
| Frame Types                                   | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken                |
| Average Glazing U-Value (W/m <sup>2</sup> .K) | 1.90                                      | 1.90                                      | 1.90                                      | 1.90                                      |
| Average Glazing SHGC                          | 0.16                                      | 0.16                                      | 0.16                                      | 0.16                                      |
| Shading Systems                               | Horizontal Device                         | Horizontal Device                         | Horizontal Device                         | Horizontal Device                         |
| Wall Area (m <sup>2</sup> )                   | 7.32                                      | 13.76                                     | 593.888                                   | 13.76                                     |
| Wall Types                                    | Wall                                      | Wall                                      | Wall                                      | Wall                                      |
| Methodology                                   | Wall                                      |                                           |                                           |                                           |
| Wall Construction                             | External Wall                             | External Wall                             | External Wall                             | External Wall                             |
| Wall Thickness                                | 150                                       | 150                                       | 150                                       | 150                                       |
| Average Wall R-value (m <sup>2</sup> .K/W)    | 2.08                                      | 2.08                                      | 2.08                                      | 2.08                                      |
| Solar Absorptance                             | 0.5                                       | 0.5                                       | 0.5                                       | 0.5                                       |

1F – Hotel



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                           |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------|----------------------------|---------------------------------------|-----|--|-------|------|----------|-------|------|----------|-----|-------------------------------|------|------|--|------|------|------|--|------------------|--|--|--|------|--|--|--|-----------------|--|--|--|--|--|----|--|
| <div>ABCBS</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | <div>Façade</div> <div>Report</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                           |                            | <div>National Construction Code</div> |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| <div>Calculator</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                           |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| <div>Project Summary</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                           |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| <div>Date</div> <div>11/05/2026</div> <div>Name</div> <div>Shawn Sun</div> <div>Company</div> <div>SLR Consulting</div> <div>Position</div> <div>Sr Project Consultant</div> <div>Building Name / Address</div> <div>173-183 Rickard Road<br/>Leppington, NSW</div> <div>Building State</div> <div>NSW</div> <div>Climate Zone</div> <div>Climate Zone 6 - Mild temperate</div> <div>Building Classification</div> <div>Class 6 - department stores, shopping centres</div> <div>Storeys Above Ground</div> <div>36</div> <div>Tool Version</div> <div>1.5 (May 2024)</div> |       | <div>The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).</div> <div>Compliant Solution = <div></div></div> <div>Non-Compliant Solution = <div></div></div> <table><tr><td></td><td>North</td><td>East</td><td>Method 1</td><td>South</td><td>West</td><td>Method 2</td><td>All</td></tr><tr><td>Wall-glazing U-Value (W/m².K)</td><td>0.48</td><td>0.48</td><td></td><td>4.28</td><td>0.48</td><td>2.00</td><td></td></tr><tr><td>Solar Admittance</td><td></td><td></td><td></td><td>0.13</td><td></td><td></td><td></td></tr><tr><td>AC Energy Value</td><td></td><td></td><td></td><td></td><td></td><td>33</td><td></td></tr></table> <div>Method 1</div> <div><div>Wall-glazing U-Value</div><div>Solar Admittance</div></div> <div>Method 2</div> <div><div>Wall-glazing U-Value - ALL</div><div>AC Energy Value</div></div> |                   |                                           |                            |                                       |     |  | North | East | Method 1 | South | West | Method 2 | All | Wall-glazing U-Value (W/m².K) | 0.48 | 0.48 |  | 4.28 | 0.48 | 2.00 |  | Solar Admittance |  |  |  | 0.13 |  |  |  | AC Energy Value |  |  |  |  |  | 33 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | North | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Method 1          | South                                     | West                       | Method 2                              | All |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Wall-glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.48  | 0.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   | 4.28                                      | 0.48                       | 2.00                                  |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Solar Admittance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | 0.13                                      |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| AC Energy Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                           |                            | 33                                    |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| <div>Project Details</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                           |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | North                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | East              | South                                     | West                       |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Glazing Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                 | 214.6                                     | 0                          |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Glazing to Façade Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | 0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0%                | 84%                                       | 0%                         |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Glazing References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | GF ALL                                    |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Glazing System Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Fixed                                     |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Glass Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Double Glazed Unit - triple low-E coating |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Frame Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Aluminium thermally broken                | Aluminium thermally broken |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Average Glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 5.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                           |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Average Glazing SHGC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.00              | 0.44                                      | 0.00                       |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Shading Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       | Horizontal Device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Horizontal Device | Horizontal Device                         | Horizontal Device          |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Wall Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | 205.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 138.6             | 40.6                                      | 40.48                      |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Wall Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wall              | Wall                                      | Wall                       |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                           |                            |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Wall Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | Internal Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Internal Wall     | External Wall                             | External Wall              |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Wall Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 150               | 150                                       | 150                        |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Average Wall R-value (m².K/W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.08              | 2.08                                      | 2.08                       |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |
| Solar Absorptance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.5               | 0.5                                       | 0.5                        |                                       |     |  |       |      |          |       |      |          |     |                               |      |      |  |      |      |      |  |                  |  |  |  |      |  |  |  |                 |  |  |  |  |  |    |  |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|------|---------------------------------------|-------|------|----------|-------|-------|----------|-------------------------------|-------|-------|-------|--------|-------------------------|------|------------------|------|------|--------------------|--------|--------|--------|-----------------|----------------------|-------|-------|-------|-------|-------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------|------|------|------|------|----------------------|------|------|------|------|-----------------|-------------------|-------------------|-------------------|-------------------|----------------|--------|--------|--------|--------|------------|------|------|------|------|-------------|------|--|--|--|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------|-----|-----|-----|-----|-------------------------------|------|------|------|------|-------------------|-----|-----|-----|-----|
| <div>ABCBC</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           | <div>Façade</div> <div>Report</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                                           |      | <div>National Construction Code</div> |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Project Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           | Calculator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                           |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Date</div> <div>11/05/2026</div> <div>Name</div> <div>Shawn Sun</div> <div>Company</div> <div>SLR Consulting</div> <div>Position</div> <div>Sr Project Consultant</div> <div>Building Name / Address</div> <div>173-183 Rickard Road<br/>Leppington, NSW</div> <div>Building State</div> <div>NSW</div> <div>Climate Zone</div> <div>Climate Zone 6 - Mild temperate</div> <div>Building Classification</div> <div>Class 6 - department stores, shopping centres</div> <div>Storeys Above Ground</div> <div>36</div> <div>Tool Version</div> <div>1.5 (May 2024)</div> |                                           | <div>The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).</div> <div><div>Compliant Solution =</div><div>Non-Compliant Solution =</div></div> <table><tr><td></td><td>North</td><td>East</td><td>Method 1</td><td>South</td><td>West</td><td>Method 2</td></tr><tr><td>Wall-glazing U-Value (W/m².K)</td><td>2.58</td><td>1.16</td><td></td><td>1.65</td><td>1.71</td><td>1.99</td></tr><tr><td>Solar Admittance</td><td>0.12</td><td>0.11</td><td></td><td>0.13</td><td>0.08</td><td></td></tr><tr><td>AC Energy Value</td><td colspan="5"></td><td>394</td></tr></table> <div><div>Method 1</div><div><div>Wall-glazing U-Value</div><div>Solar Admittance</div></div></div> <div><div>Method 2</div><div><div>Wall-glazing U-Value - ALL</div><div>AC Energy Value</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                           |      |                                       | North | East | Method 1 | South | West  | Method 2 | Wall-glazing U-Value (W/m².K) | 2.58  | 1.16  |       | 1.65   | 1.71                    | 1.99 | Solar Admittance | 0.12 | 0.11 |                    | 0.13   | 0.08   |        | AC Energy Value |                      |       |       |       |       | 394         |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Method 1                                  | South                                     | West | Method 2                              |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall-glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.58                                      | 1.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           | 1.65                                      | 1.71 | 1.99                                  |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Admittance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.12                                      | 0.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           | 0.13                                      | 0.08 |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| AC Energy Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                           |      | 394                                   |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Project Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           | <table><tr><td></td><td>North</td><td>East</td><td>South</td><td>West</td></tr><tr><td>Glazing Area (m²)</td><td>625.3</td><td>76.08</td><td>199.5</td><td>112.98</td></tr><tr><td>Glazing to Façade Ratio</td><td>69%</td><td>22%</td><td>39%</td><td>41%</td></tr><tr><td>Glazing References</td><td>GF ALL</td><td>GF ALL</td><td>GF ALL</td><td>GF ALL</td></tr><tr><td>Glazing System Types</td><td>Fixed</td><td>Fixed</td><td>Fixed</td><td>Fixed</td></tr><tr><td>Glass Types</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td></tr><tr><td>Frame Types</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td></tr><tr><td>Average Glazing U-Value (W/m².K)</td><td>3.50</td><td>3.50</td><td>3.50</td><td>3.50</td></tr><tr><td>Average Glazing SHGC</td><td>0.21</td><td>0.21</td><td>0.21</td><td>0.21</td></tr><tr><td>Shading Systems</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td></tr><tr><td>Wall Area (m²)</td><td>275.82</td><td>263.16</td><td>315.74</td><td>163.78</td></tr><tr><td>Wall Types</td><td>Wall</td><td>Wall</td><td>Wall</td><td>Wall</td></tr><tr><td>Methodology</td><td colspan="4">Wall</td></tr><tr><td>Wall Construction</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td></tr><tr><td>Wall Thickness</td><td>150</td><td>150</td><td>150</td><td>150</td></tr><tr><td>Average Wall R-value (m².K/W)</td><td>2.08</td><td>2.08</td><td>2.08</td><td>2.08</td></tr><tr><td>Solar Absorptance</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td></tr></table> |                                           |                                           |      |                                       |       |      | North    | East  | South | West     | Glazing Area (m²)             | 625.3 | 76.08 | 199.5 | 112.98 | Glazing to Façade Ratio | 69%  | 22%              | 39%  | 41%  | Glazing References | GF ALL | GF ALL | GF ALL | GF ALL          | Glazing System Types | Fixed | Fixed | Fixed | Fixed | Glass Types | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Frame Types | Aluminium thermally broken | Aluminium thermally broken | Aluminium thermally broken | Aluminium thermally broken | Average Glazing U-Value (W/m².K) | 3.50 | 3.50 | 3.50 | 3.50 | Average Glazing SHGC | 0.21 | 0.21 | 0.21 | 0.21 | Shading Systems | Horizontal Device | Horizontal Device | Horizontal Device | Horizontal Device | Wall Area (m²) | 275.82 | 263.16 | 315.74 | 163.78 | Wall Types | Wall | Wall | Wall | Wall | Methodology | Wall |  |  |  | Wall Construction | External Wall Internal Wall | External Wall Internal Wall | External Wall Internal Wall | External Wall Internal Wall | Wall Thickness | 150 | 150 | 150 | 150 | Average Wall R-value (m².K/W) | 2.08 | 2.08 | 2.08 | 2.08 | Solar Absorptance | 0.5 | 0.5 | 0.5 | 0.5 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | South                                     | West                                      |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 625.3                                     | 76.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 199.5                                     | 112.98                                    |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing to Façade Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 69%                                       | 22%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 39%                                       | 41%                                       |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GF ALL                                    | GF ALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GF ALL                                    | GF ALL                                    |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing System Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fixed                                     | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fixed                                     | Fixed                                     |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glass Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Frame Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Aluminium thermally broken                | Aluminium thermally broken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Aluminium thermally broken                | Aluminium thermally broken                |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.50                                      | 3.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.50                                      | 3.50                                      |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing SHGC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.21                                      | 0.21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.21                                      | 0.21                                      |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Shading Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Horizontal Device                         | Horizontal Device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Horizontal Device                         | Horizontal Device                         |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 275.82                                    | 263.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 315.74                                    | 163.78                                    |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wall                                      | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wall                                      | Wall                                      |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Wall                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                           |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | External Wall Internal Wall               | External Wall Internal Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | External Wall Internal Wall               | External Wall Internal Wall               |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 150                                       | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 150                                       | 150                                       |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Wall R-value (m².K/W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.08                                      | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.08                                      | 2.08                                      |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Absorptance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.5                                       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.5                                       | 0.5                                       |      |                                       |       |      |          |       |       |          |                               |       |       |       |        |                         |      |                  |      |      |                    |        |        |        |                 |                      |       |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |        |        |        |        |            |      |      |      |      |             |      |  |  |  |                   |                             |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |

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| <div>ABCB</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           | <div>Façade</div> <div>Report</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           | <div>National Construction Code</div>     |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Calculator</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                           |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Summary</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                           |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Date</div> <div>19/05/2026</div> <div>Name</div> <div>Shawn Sun</div> <div>Company</div> <div>SLR Consulting</div> <div>Position</div> <div>Sr Project Consultant</div> <div>Building Name / Address</div> <div>173-183 Rickard Road<br/>Leppington, NSW</div> <div>Building State</div> <div>NSW</div> <div>Climate Zone</div> <div>Climate Zone 6 - Mild<br/>temperate</div> <div>Building Classification</div> <div>Class 9b - sports venues or<br/>the like</div> <div>Storeys Above Ground</div> <div>36</div> <div>Tool Version</div> <div>1.5 (May 2024)</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           | <div>The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).</div> <div><div>Compliant Solution =</div><div>Non-Compliant Solution =</div></div> <table><tr><td></td><td>North</td><td>East</td><td>Method 1</td><td>South</td><td>West</td><td>Method 2</td></tr><tr><td>Wall-glazing U-Value (W/m².K)</td><td>2.60</td><td>0.79</td><td></td><td>1.51</td><td>2.08</td><td>All</td></tr><tr><td>Solar Admittance</td><td>0.18</td><td>0.10</td><td></td><td>0.06</td><td>0.07</td><td></td></tr><tr><td>AC Energy Value</td><td colspan="5"></td><td>145</td></tr></table> <div><div>Method 1</div><div><div>Wall-glazing U-Value</div><div>Solar Admittance</div></div></div> <div><div>Method 2</div><div><div>Wall-glazing U-Value - ALL</div><div>AC Energy Value</div></div></div> |                                           |                                           |      |          | North | East | Method 1 | South | West              | Method 2 | Wall-glazing U-Value (W/m².K) | 2.60  | 0.79   |                         | 1.51 | 2.08 | All | Solar Admittance | 0.18               | 0.10   |        | 0.06   | 0.07   |                      | AC Energy Value |       |       |       |             |                                           | 145                                       |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Method 1                                  | South                                     | West | Method 2 |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall-glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.60                                      | 0.79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           | 1.51                                      | 2.08 | All      |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Admittance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.18                                      | 0.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           | 0.06                                      | 0.07 |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| AC Energy Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                           |      | 145      |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <div>Project Details</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                           |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| <table><tr><td></td><td>North</td><td>East</td><td>South</td><td>West</td></tr><tr><td>Glazing Area (m²)</td><td>257.88</td><td>11.52</td><td>91.39</td><td>174.72</td></tr><tr><td>Glazing to Façade Ratio</td><td>95%</td><td>14%</td><td>46%</td><td>72%</td></tr><tr><td>Glazing References</td><td>GF ALL</td><td>GF ALL</td><td>GF ALL</td><td>GF ALL</td></tr><tr><td>Glazing System Types</td><td>Fixed</td><td>Fixed</td><td>Fixed</td><td>Fixed</td></tr><tr><td>Glass Types</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td><td>Double Glazed Unit - triple low-E coating</td></tr><tr><td>Frame Types</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td><td>Aluminium thermally broken</td></tr><tr><td>Average Glazing U-Value (W/m².K)</td><td>2.70</td><td>2.70</td><td>2.70</td><td>2.70</td></tr><tr><td>Average Glazing SHGC</td><td>0.19</td><td>0.19</td><td>0.19</td><td>0.19</td></tr><tr><td>Shading Systems</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td><td>Horizontal Device</td></tr><tr><td>Wall Area (m²)</td><td>12.28</td><td>71.2</td><td>105.29</td><td>67.72</td></tr><tr><td>Wall Types</td><td>Wall</td><td>Wall</td><td>Wall</td><td>Wall</td></tr><tr><td>Methodology</td><td colspan="4">Wall</td></tr><tr><td>Wall Construction</td><td>External Wall</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td><td>External Wall Internal Wall</td></tr><tr><td>Wall Thickness</td><td>150</td><td>150</td><td>150</td><td>150</td></tr><tr><td>Average Wall R-value (m².K/W)</td><td>2.08</td><td>2.08</td><td>2.08</td><td>2.08</td></tr><tr><td>Solar Absorptance</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td></tr></table> |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                           |      |          | North | East | South    | West  | Glazing Area (m²) | 257.88   | 11.52                         | 91.39 | 174.72 | Glazing to Façade Ratio | 95%  | 14%  | 46% | 72%              | Glazing References | GF ALL | GF ALL | GF ALL | GF ALL | Glazing System Types | Fixed           | Fixed | Fixed | Fixed | Glass Types | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Frame Types | Aluminium thermally broken | Aluminium thermally broken | Aluminium thermally broken | Aluminium thermally broken | Average Glazing U-Value (W/m².K) | 2.70 | 2.70 | 2.70 | 2.70 | Average Glazing SHGC | 0.19 | 0.19 | 0.19 | 0.19 | Shading Systems | Horizontal Device | Horizontal Device | Horizontal Device | Horizontal Device | Wall Area (m²) | 12.28 | 71.2 | 105.29 | 67.72 | Wall Types | Wall | Wall | Wall | Wall | Methodology | Wall |  |  |  | Wall Construction | External Wall | External Wall Internal Wall | External Wall Internal Wall | External Wall Internal Wall | Wall Thickness | 150 | 150 | 150 | 150 | Average Wall R-value (m².K/W) | 2.08 | 2.08 | 2.08 | 2.08 | Solar Absorptance | 0.5 | 0.5 | 0.5 | 0.5 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | North                                     | East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | South                                     | West                                      |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 257.88                                    | 11.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 91.39                                     | 174.72                                    |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing to Façade Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 95%                                       | 14%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 46%                                       | 72%                                       |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GF ALL                                    | GF ALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GF ALL                                    | GF ALL                                    |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glazing System Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fixed                                     | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fixed                                     | Fixed                                     |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Glass Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Frame Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Aluminium thermally broken                | Aluminium thermally broken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Aluminium thermally broken                | Aluminium thermally broken                |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing U-Value (W/m².K)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.70                                      | 2.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.70                                      | 2.70                                      |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Glazing SHGC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.19                                      | 0.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.19                                      | 0.19                                      |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Shading Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Horizontal Device                         | Horizontal Device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Horizontal Device                         | Horizontal Device                         |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Area (m²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12.28                                     | 71.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 105.29                                    | 67.72                                     |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Wall                                      | Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Wall                                      | Wall                                      |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Methodology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Wall                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                           |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | External Wall                             | External Wall Internal Wall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | External Wall Internal Wall               | External Wall Internal Wall               |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Wall Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 150                                       | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 150                                       | 150                                       |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Average Wall R-value (m².K/W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.08                                      | 2.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.08                                      | 2.08                                      |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |
| Solar Absorptance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.5                                       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.5                                       | 0.5                                       |      |          |       |      |          |       |                   |          |                               |       |        |                         |      |      |     |                  |                    |        |        |        |        |                      |                 |       |       |       |             |                                           |                                           |                                           |                                           |             |                            |                            |                            |                            |                                  |      |      |      |      |                      |      |      |      |      |                 |                   |                   |                   |                   |                |       |      |        |       |            |      |      |      |      |             |      |  |  |  |                   |               |                             |                             |                             |                |     |     |     |     |                               |      |      |      |      |                   |     |     |     |     |

1F - Entertainment (Class 9b)



## Project Summary

**Date**  
19/05/2026

**Name**  
Shawn Sun

**Company**  
SLR Consulting

**Position**  
Sr Project Consultant

**Building Name / Address**  
173-183 Rickard Road  
Leppington, NSW

**Building State**  
NSW

**Climate Zone**  
Climate Zone 6 - Mild temperate

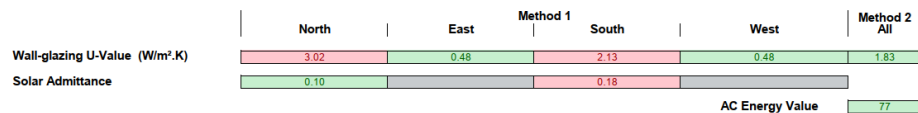
**Building Classification**  
Class 9b - sports venues or the like

**Storeys Above Ground**  
36

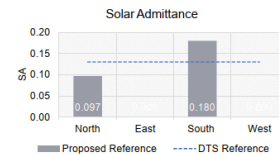
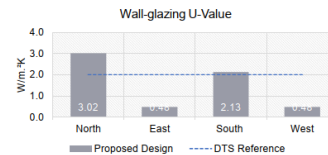
**Tool Version**  
1.5 (May 2024)

The summary below provides an overview of where compliance has been achieved for Specification S37 - Calculation of U-Value and solar admittance - Method 1 (Single Aspect) and Method 2 (Multiple Aspects).

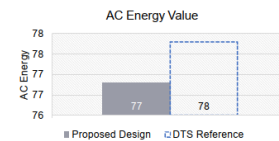
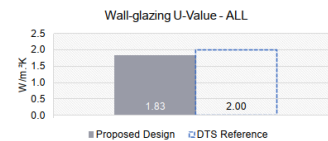
Compliant Solution =  
Non-Compliant Solution =



### Method 1



### Method 2



### Project Details

|                                  | North                                     | East              | South                                     | West                       |
|----------------------------------|-------------------------------------------|-------------------|-------------------------------------------|----------------------------|
| Glazing Area (m²)                | 148                                       | 0                 | 122.88                                    | 0                          |
| Glazing to Façade Ratio          | 84%                                       | 0%                | 55%                                       | 0%                         |
| Glazing References               | GF ALL                                    |                   | GF ALL                                    |                            |
| Glazing System Types             | Fixed                                     |                   | Fixed                                     |                            |
| Glass Types                      | Double Glazed Unit - triple low-E coating |                   | Double Glazed Unit - triple low-E coating |                            |
| Frame Types                      | Aluminium thermally broken                |                   | Aluminium thermally broken                | Aluminium thermally broken |
| Average Glazing U-Value (W/m².K) | 3.50                                      |                   | 3.50                                      |                            |
| Average Glazing SHGC             | 0.33                                      | 0.00              | 0.33                                      | 0.00                       |
| Shading Systems                  | Horizontal Device                         | Horizontal Device | Horizontal Device                         | Horizontal Device          |
| Wall Area (m²)                   | 28                                        | 90.2              | 102.4                                     | 114.4                      |
| Wall Types                       | Wall                                      | Wall              | Wall                                      | Wall                       |
| Methodology                      | Wall                                      |                   |                                           |                            |
| Wall Construction                | External Wall                             | Internal Wall     | External Wall                             | External Wall              |
| Wall Thickness                   | 150                                       | 150               | 150                                       | 150                        |
| Average Wall R-value (m².K/W)    | 2.08                                      | 2.08              | 2.08                                      | 2.08                       |
| Solar Absorbance                 | 0.5                                       | 0.5               | 0.5                                       | 0.5                        |

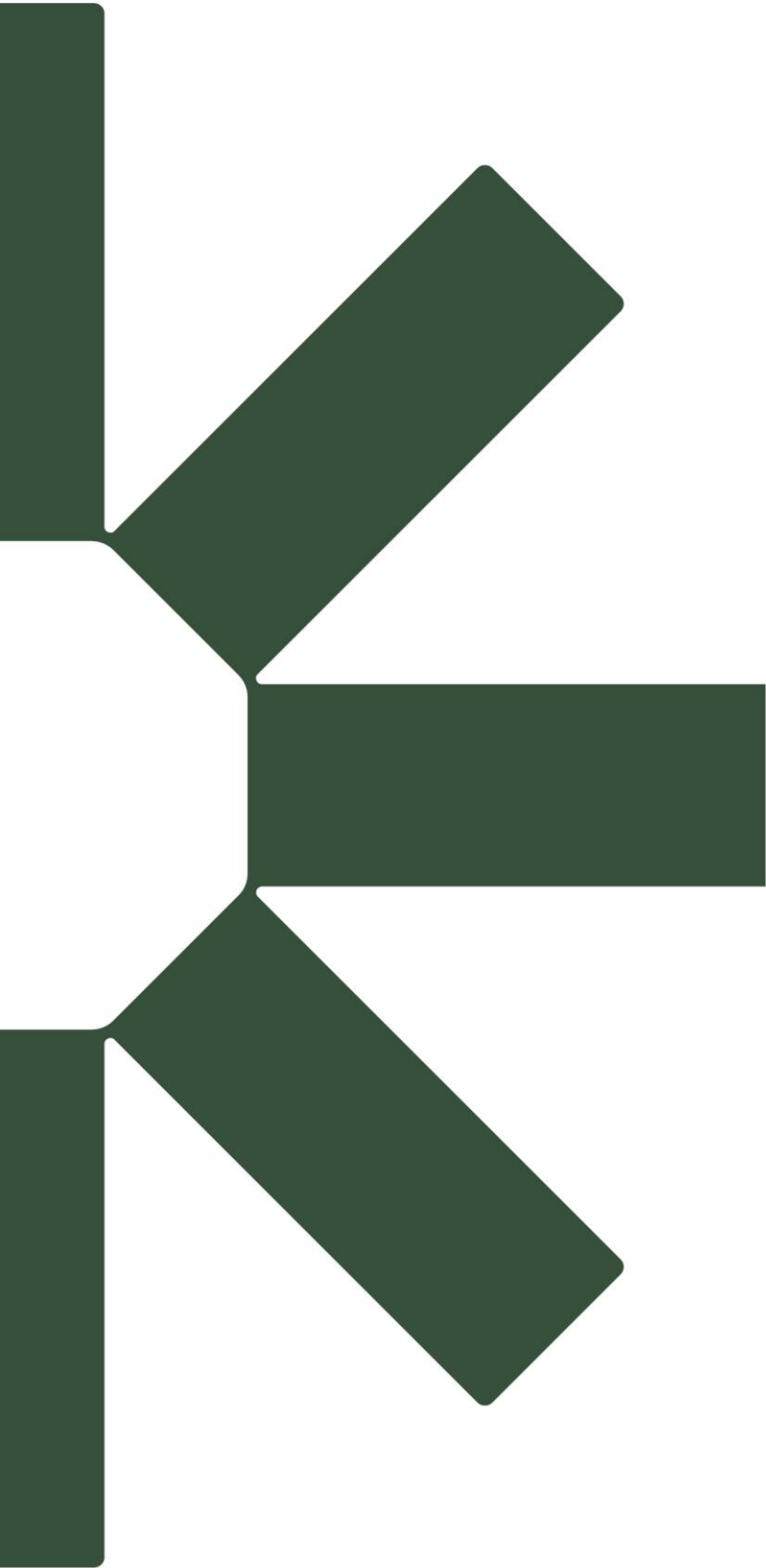
## Project Summary

|                                  | North                                     | East                                      | South                                     | West                       |
|----------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------|
| Glazing Area (m²)                | 97.68                                     | 39.59                                     | 111.74                                    |                            |
| Glazing to Façade Ratio          | 59%                                       | 33%                                       | 84%                                       |                            |
| Glazing References               | GF ALL                                    | GF ALL                                    | GF ALL                                    |                            |
| Glazing System Types             | Fixed                                     | Fixed                                     | Fixed                                     |                            |
| Glass Types                      | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating | Double Glazed Unit - triple low-E coating |                            |
| Frame Types                      | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken                | Aluminium thermally broken |
| Average Glazing U-Value (W/m².K) | 3.00                                      | 3.00                                      | 3.00                                      |                            |
| Average Glazing SHGC             | 0.28                                      | 0.28                                      | 0.28                                      | 0.00                       |
| Shading Systems                  | Horizontal Device                         | Horizontal Device                         | Horizontal Device                         | Horizontal Device          |
| Wall Area (m²)                   | 66.88                                     | 80.09                                     | 21.14                                     |                            |
| Wall Types                       | Wall                                      | Wall                                      | Wall                                      |                            |
| Methodology                      | Wall                                      |                                           |                                           |                            |
| Wall Construction                | External Wall Internal Wall               | External Wall Internal Wall               | External Wall                             | External Wall              |
| Wall Thickness                   | 150                                       | 150                                       | 150                                       |                            |
| Average Wall R-value (m².K/W)    | 2.08                                      | 2.08                                      | 2.08                                      |                            |
| Solar Absorptance                | 0.5                                       | 0.5                                       | 0.5                                       | 0.5                        |









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