

BASIX Report

Building Sustainability Index

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Score

Water: 46 (Target 40)

Thermal comfort: pass (Target pass)

Energy: 77 (Target 20)

This is not a valid certificate.

Description of project

Project address	
Project name	Frasers Broadway Block 2E Part 4 - L5 to L28
Street address	26 Broadway N.A. Chippendale 2008
Local Government Area	Sydney City Council
Plan type and plan number	deposited 1131320
Lot no.	1
Section no.	-
Project type	
No. of unit buildings	1
No. of units in unit buildings	78
No. of attached dwelling houses	0
No. of separate dwelling houses	0
Site details	
Site area (m ²)	4875
Roof area (m ²)	1628
Non-residential floor area (m ²)	1884.42
Residential car spaces	48
Non-residential car spaces	12
Common area landscape	
Common area lawn (m ²)	0
Common area garden (m ²)	449
Area of indigenous or low water use species (m ²)	0
Assessor details	
Assessor number	20557
Certificate number	-
Climate zone	17

Description of project

The tables below describe the dwellings and common areas within the project

Unit building - Block 2E Part 4, 78 dwellings, 33 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
1B1R	1	67.0	0.0	12.65	0
5B1R	1	67.0	0.0	15.6	0
9B1R	1	67.0	0.0	15.6	0
13B1R	1	67.0	0.0	18.35	0
17B1R	1	67.0	0.0	18.35	0
21B1R	1	67.0	0.0	12.65	0
25B1R	1	67.0	0.0	18.35	0
29B1R	1	53.0	0.0	12.75	0
33B1R	1	53.0	0.0	9.6	0
37B1R	1	53.0	0.0	9	0
41B1R	1	53.0	0.0	12.75	0
45B1R	1	53.0	0.0	9	0
49B1R	1	53.0	0.0	12.75	0
53B1R	1	52.0	0.0	0	0
57B1R	1	52.0	0.0	0	0
61B1R	1	52.0	0.0	0	0
65B1R	1	52.0	0.0	0	0
69B1R	1	52.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
2B1R	1	67.0	0.0	18.35	0
6B1R	1	67.0	0.0	15.6	0
10B1R	1	67.0	0.0	12.65	0
14B1R	1	67.0	0.0	4	0
18B1R	1	67.0	0.0	18.35	0
22B1R	1	67.0	0.0	18.35	0
26B1R	1	67.0	0.0	12.65	0
30B1R	1	53.0	0.0	9.6	0
34B1R	1	53.0	0.0	9.6	0
38B1R	1	53.0	0.0	9	0
42B1R	1	53.0	0.0	9	0
46B1R	1	53.0	0.0	9.6	0
50B1R	1	53.0	0.0	12	0
54B1R	1	52.0	0.0	0	0
58B1R	1	52.0	0.0	0	0
62B1R	1	52.0	0.0	0	0
66B1R	1	52.0	0.0	0	0
70B1R	1	52.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
3B1R	1	67.0	0.0	12.65	0
7B1R	1	67.0	0.0	12.65	0
11B1R	1	67.0	0.0	12.65	0
15B1R	1	67.0	0.0	18.35	0
19B1R	1	67.0	0.0	12.65	0
23B1R	1	67.0	0.0	12.65	0
27B1R	1	53.0	0.0	12.75	0
31B1R	1	53.0	0.0	12.75	0
35B1R	1	53.0	0.0	9	0
39B1R	1	53.0	0.0	9.6	0
43B1R	1	53.0	0.0	12.75	0
47B1R	1	53.0	0.0	9	0
51B1R	1	53.0	0.0	12.75	0
55B1R	1	52.0	0.0	0	0
59B1R	1	52.0	0.0	0	0
63B1R	1	52.0	0.0	0	0
67B1R	1	52.0	0.0	0	0
71B1R	1	52.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
4B1R	1	67.0	0.0	15.6	0
8B1R	1	67.0	0.0	15.6	0
12B1R	1	67.0	0.0	15.6	0
16B1R	1	67.0	0.0	18.35	0
20B1R	1	67.0	0.0	15.6	0
24B1R	1	67.0	0.0	15.6	0
28B1R	1	53.0	0.0	9	0
32B1R	1	53.0	0.0	9.6	0
36B1R	1	53.0	0.0	9	0
40B1R	1	53.0	0.0	9.6	0
44B1R	1	53.0	0.0	3	0
48B1R	1	53.0	0.0	9.6	0
52B1R	1	53.0	0.0	12.75	0
56B1R	1	52.0	0.0	8	0
60B1R	1	52.0	0.0	0	0
64B1R	1	52.0	0.0	0	0
68B1R	1	52.0	0.0	0	0
72B1R	1	52.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
73B1R	1	52.0	0.0	0	0
77B1R	1	52.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
74B1R	1	52.0	0.0	0	0
78B1R	1	52.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
75B1R	1	52.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
76B1R	1	52.0	0.0	0	0

Description of project

The tables below describe the dwellings and common areas within the project

Common areas of unit building - Block 2E Part 4

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
2R Gym	138.25	Lift car (No. 1)	-	Lift motor room (No. 1)	2.52
2R Residential Gallery - L1	12.67	2R Residential Library - L1	25.52	AHU Rooms - B2	22.04
RWT Plant room - B2	10.44	Grease Arrestor - B2	2.9	Heat Exchange Plant - B2	16.24
Other Plant rooms - B2	33.06	Water / Gas Meter Rooms - B1	2.32	Grease Arrestor - B1	2.9
BOH Store - B1	7.54	CCTV Security Dock Manager Room	3.48	2R BOH - L0	2.46
Fire Control Room - L0	3.25	2R Water Tank Room - L34	5.98	2R Fan Rooms - L34	4.89
2R BMU Storage - L34	10.07	2R AHU Plant room - L34	11.44	2R Storage Room - B4	140.1
Recycling Storage (Residential) - B1	6.96	2R Toilet - L0	2.38	2R Access Corridor - L0	6.69
2R Mail Rooms - L0	16.54	2R Storage room - L1	2.01	2R Toilets - L4	2.29
2R Showers cum landscaped area - L4	2.02	2R Changing Rooms - L4	5.72	2R Corridor to plant rooms - L34	15.29
Ground floor lobby type (No. 1)	58.08	2R Lift Lobby - B4	13.2	2R Lift Lobby - B3	13.2
2R Lift Lobby - B2	13.2	2R Lift Lobby - B1	11.97	Common Corridor - apt levels	623.61

Common areas of the development (non-building specific)

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Car park area (No. 1)	1937.2	Garbage room - B1	20.76	Grease Arrestor - B3	2.9
HW Boiler - B2	8.7	MDF rooms - B1	2.32	BOH Amenity - B1	6.96
BOH Office - B1	8.12	Laundry Room - B1	2.32	Recycling Storage (Comm) - B1	4.06
Podium - L4	56.03	Common Corridor - L0	78.07		

Schedule of BASIX commitments

1. Commitments for unit building - Block 2E Part 4

(a) Dwellings

- (i) Water
- (ii) Energy
- (iii) Thermal Comfort

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

2. Commitments for attached dwelling houses

3. Commitments for separate dwelling houses

4. Commitments for common areas and central systems/facilities for the development (non-building specific)

- (i) Water
- (ii) Energy

Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

1. Commitments for unit building - Block 2E Part 4

(a) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✓	✓	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✓	✓
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✓	✓
(e) The applicant must install:			
(aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and		✓	✓
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		✓	✓
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	✓	✓	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		✓	
(g) The pool or spa must be located as specified in the table.	✓	✓	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	✓	✓	✓

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	3 star	4 star	5 star	5 star	-	-	-	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	on-site recycled water system (no. 1)	See central systems	See central systems	yes	yes	no	no	no
None	-	-	-	-	-	-	-	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below; (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓ ✓ ✓	✓
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	central hot water system 1	motorised damper into central duct + VSD	manual switch on/off	motorised damper into central duct + VSD	manual switch on/off	motorised damper into central duct + VSD	manual switch on/off

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
2B1R, 4B1R, 12B1R, 13B1R, 15B1R, 16B1R, 17B1R, 18B1R, 22B1R, 25B1R, 29B1R, 31B1R, 41B1R, 42B1R, 43B1R, 47B1R, 49B1R, 50B1R, 55B1R, 56B1R, 65B1R, 66B1R, 68B1R, 69B1R, 71B1R, 72B1R, 78B1R	1-phase airconditioning 5 Star (zoned)	1-phase airconditioning 5 Star (zoned)	1-phase airconditioning 5 Star (zoned)	1-phase airconditioning 5 Star (zoned)	1 (dedicated)	1 (dedicated)	no	no	no	no	1	yes

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
1B1R, 3B1R, 5B1R, 6B1R, 7B1R, 8B1R, 9B1R, 10B1R, 11B1R, 14B1R, 19B1R, 20B1R, 21B1R, 23B1R, 24B1R, 26B1R, 27B1R, 28B1R, 30B1R, 32B1R, 33B1R, 34B1R, 35B1R, 36B1R, 37B1R, 38B1R, 39B1R, 40B1R, 44B1R, 45B1R, 46B1R, 48B1R, 51B1R, 52B1R, 53B1R, 54B1R, 57B1R, 58B1R, 59B1R,	1-phase airconditioning 5 Star (zoned)	1-phase airconditioning 5 Star (zoned)	1-phase airconditioning 5 Star (zoned)	1-phase airconditioning 5 Star (zoned)	1 (dedicated)	1 (dedicated)	no	no	no	no	0	yes

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
60B1R, 61B1R, 62B1R, 63B1R, 64B1R, 67B1R, 70B1R, 73B1R, 74B1R, 75B1R, 76B1R, 77B1R												

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	-	yes	-	-	-	yes	no

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.			
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.			
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✓	✓
(g) Where there is an in-slab heating or cooling system, the applicant must: (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✓	✓	✓
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✓	✓	✓

Dwelling no.	Thermal loads	
	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
1B1R, 2B1R, 3B1R, 4B1R, 5B1R, 6B1R, 7B1R, 8B1R, 9B1R, 10B1R, 11B1R, 12B1R, 13B1R, 14B1R, 15B1R, 16B1R, 17B1R, 18B1R, 19B1R, 20B1R, 21B1R, 22B1R, 23B1R, 24B1R, 25B1R, 26B1R	14.3	24.2
27B1R, 28B1R, 29B1R, 30B1R, 31B1R, 32B1R, 33B1R, 34B1R, 35B1R, 36B1R, 37B1R, 38B1R, 39B1R, 40B1R, 41B1R, 42B1R, 43B1R, 44B1R, 45B1R, 46B1R, 47B1R, 48B1R, 49B1R, 50B1R, 51B1R, 52B1R	18.3	11.1
All other dwellings	5.8	14.3

(b) Common areas and central systems/facilities

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		✓	✓
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	✓	✓	✓
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	✓	✓	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		✓	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		✓	✓
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		✓	✓

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	4 star	6 star	no common laundry facility

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		✓	✓
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	✓	✓	✓

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
2R Gym	air conditioning system	none ie. continuous	fluorescent	zoned switching	Yes
Lift car (No. 1)	-	-	fluorescent	connected to lift call button	Yes
Lift motor room (No. 1)	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
2R Residential Gallery - L1	ventilation supply only	none ie. continuous	metal halide	time clock and motion sensors	Yes
2R Residential Library - L1	air conditioning system	none ie. continuous	compact fluorescent	time clock and motion sensors	Yes
AHU Rooms - B2	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
RWT Plant room - B2	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
Grease Arrestor - B2	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
Heat Exchange Plant - B2	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
Other Plant rooms - B2	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
Water / Gas Meter Rooms - B1	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
Grease Arrestor - B1	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
BOH Store - B1	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
CCTV Security Dock Manager Room	air conditioning system	none ie. continuous	fluorescent	manual on / manual off	No
2R BOH - L0	ventilation exhaust only	none ie. continuous	fluorescent	manual on / manual off	No
Fire Control Room - L0	ventilation supply only	none ie. continuous	fluorescent	manual on / manual off	No
2R Water Tank Room - L34	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
2R Fan Rooms - L34	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
2R BMU Storage - L34	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
2R AHU Plant room - L34	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
2R Storage Room - B4	ventilation exhaust only	none ie. continuous	fluorescent	time clock and motion sensors	Yes
Recycling Storage (Residential) - B1	ventilation (supply + exhaust)	none ie. continuous	fluorescent	time clock and motion sensors	Yes
2R Toilet - L0	ventilation exhaust only	none ie. continuous	fluorescent	time clock and motion sensors	Yes
2R Access Corridor - L0	no mechanical ventilation	-	fluorescent	zoned switching	Yes
2R Mail Rooms - L0	air conditioning system	none ie. continuous	fluorescent	time clock and motion sensors	Yes
2R Storage room - L1	ventilation exhaust only	none ie. continuous	fluorescent	zoned switching	Yes
2R Toilets - L4	ventilation exhaust only	none ie. continuous	fluorescent	zoned switching	Yes
2R Showers cum landscaped area - L4	no mechanical ventilation	-	fluorescent	zoned switching	Yes
2R Changing Rooms - L4	ventilation exhaust only	none ie. continuous	fluorescent	zoned switching	Yes
2R Corridor to plant rooms - L34	ventilation supply only	none ie. continuous	fluorescent	time clock and motion sensors	Yes
Ground floor lobby type (No. 1)	air conditioning system	none ie. continuous	metal halide	time clocks	Yes
2R Lift Lobby - B4	ventilation supply only	none ie. continuous	fluorescent	time clock and motion sensors	Yes
2R Lift Lobby - B3	ventilation supply only	none ie. continuous	fluorescent	time clock and motion sensors	Yes
2R Lift Lobby - B2	ventilation supply only	none ie. continuous	fluorescent	time clock and motion sensors	Yes

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
2R Lift Lobby - B1	ventilation supply only	none ie. continuous	fluorescent	time clock and motion sensors	Yes
Common Corridor - apt levels	ventilation supply only	none ie. continuous	fluorescent	time clock and motion sensors	Yes

Central energy systems	Type	Specification
Lift (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 32

4. Commitments for common areas and central systems/facilities for the development (non-building specific)

(b) Common areas and central systems/facilities

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		✓	✓
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	✓	✓	✓
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	✓	✓	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		✓	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		✓	✓
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		✓	✓

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	4 star	6 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Central on-site recycled/alternative water supply (No. 1)	To supply at least 10626 litres of recycled water per day to the development (over and above the system's committed capacity, if any)	-	- Irrigation of 449 square metres of common landscape area on the site - use of this water as make-up water by Central cooling system 1, in the building/development
Fire sprinkler system (No. 1)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

Central systems	Size	Configuration	Connection (to allow for...)
Central cooling system (No. 1)	-	Private water meter on make-up line connected to building management system. Conductivity controller installed in the cooling tower.	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		✓	✓
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	✓	✓	✓

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Car park area (No. 1)	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	time clock and motion sensors	Yes
Garbage room - B1	ventilation (supply + exhaust)	-	fluorescent	manual on / manual off	No
Grease Arrestor - B3	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
HW Boiler - B2	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
MDF rooms - B1	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
BOH Amenity - B1	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
BOH Office - B1	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Laundry Room - B1	ventilation (supply + exhaust)	none ie. continuous	fluorescent	manual on / manual off	No
Recycling Storage (Comm) - B1	ventilation (supply + exhaust)	none ie. continuous	fluorescent	time clock and motion sensors	Yes
Podium - L4	no mechanical ventilation	-	fluorescent	zoned switching	Yes
Common Corridor - L0	no mechanical ventilation	-	fluorescent	time clocks	Yes

Central energy systems	Type	Specification
Central hot water system (No. 1)	cogeneration system	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Central cooling system (No. 1)	chilled water fan coil units	Energy source: cogeneration heat absorption chiller Heat rejection method: cooling tower Unit efficiency (min): high - COP > 1.0
Central heating system (No. 1)	fan coil + heated water	Energy source: cogeneration heat boiler
Alternative energy supply	Cogeneration system	Fuel type: gas Electrical output (min): 252.3kW Efficiency of fuel to electricity conversion (min): 70%

Notes

1. In these commitments, "applicant" means the person carrying out the development.
2. The applicant must identify each dwelling, building and common area listed in this certificate, on the plans accompanying any development application, and on the plans and specifications accompanying the application for a construction certificate / complying development certificate, for the proposed development, using the same identifying letter or reference as is given to that dwelling, building or common area in this certificate.
3. This note applies if the proposed development involves the erection of a building for both residential and non-residential purposes (or the change of use of a building for both residential and non-residential purposes). Commitments in this certificate which are specified to apply to a "common area" of a building or the development, apply only to that part of the building or development to be used for residential purposes.
4. If this certificate lists a central system as a commitment for a dwelling or building, and that system will also service any other dwelling or building within the development, then that system need only be installed once (even if it is separately listed as a commitment for that other dwelling or building).
5. If a star or other rating is specified in a commitment, this is a minimum rating.
6. All alternative water systems to be installed under these commitments (if any), must be installed in accordance with the requirements of all applicable regulatory authorities. NOTE: NSW Health does not recommend that stormwater, recycled water or private dam water be used to irrigate edible plants which are consumed raw, or that rainwater be used for human consumption in areas with potable water supply.

Legend

1. Commitments identified with a "✓" in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).
2. Commitments identified with a "✓" in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.
3. Commitments identified with a "✓" in the "Certifier check" column must be certified by a certifying authority as having been fulfilled. (Note: a certifying authority must not issue an occupation certificate (either interim or final) for a building listed in this certificate, or for any part of such a building, unless it is satisfied that each of the commitments whose fulfilment it is required to monitor in relation to the building or part, has been fulfilled).