BASIX® Certificate

Building Sustainability Index www.basix.nsw.gov.au

Multi Dwelling

Certificate number: 972037M_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary
Date of issue: Friday, 09 November 2018
To be valid, this certificate must be lodged within 3 months of the date of issue.

NSW GOVERNMENT Planning & Environment

Project summary	
Project name	1 & 2 Murray Rose Ave, Sydney Olympi_02
Street address	1 & 2 Murray Rose Avenue Sydney Olympic Park 2127
Local Government Area	Parramatta City Council
Plan type and plan number	deposited 1185060
Lot no.	1 & 2
Section no.	-
No. of residential flat buildings	2
No. of units in residential flat buildings	294
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Project score		
Water	✔ 60	Target 40
Thermal Comfort	✔ Pass	Target Pass
Energy	✔ 47	Target 25

If any changes to this BASIX certificate are required, please contact Cardno on following details:
Project Reference: 1 & 2 Murray Rose Avenue Sydney Olympic Park 2127
Contact number: 0430 108 801

Certificate Prepared by
Name / Company Name: Cardno
ABN (if applicable): 95001145035

Description of project

Project address	
Project name	1 & 2 Murray Rose Ave, Sydney Olympi_02
Street address	1 & 2 Murray Rose Avenue Sydney Olympic Park 2127
Local Government Area	Parramatta City Council
Plan type and plan number	deposited 1185060
Lot no.	1 & 2
Section no.	-
Project type	
No. of residential flat buildings	2
No. of units in residential flat buildings	294
No. of multi-dwelling houses	0
No. of single dwelling houses	0
Site details	
Site area (m²)	6453
Roof area (m²)	3883
Non-residential floor area (m²)	0.0
Residential car spaces	204
Non-residential car spaces	2

Common area landscape	
Common area lawn (m²)	289.0
Common area garden (m²)	1463.0
Area of indigenous or low water use species (m²)	1463.0
Assessor details	
Assessor number	20241
Certificate number	0003335990
Climate zone	56

Project score		
Water	✔ 60	Target 40
Thermal Comfort	✔ Pass	Target Pass
Energy	✔ 47	Target 25

Description of project

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

Residential flat buildings - Building 1, 168 dwellings, 13 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
10001	1	49.2	0.0	0.0	0.0
10005	2	85.2	0.0	0.0	0.0
10009	2	78.1	0.0	0.0	0.0
10103	1	57.6	0.0	0.0	0.0
10107	3	117.5	0.0	0.0	0.0
10111	2	78.1	0.0	0.0	0.0
10201	2	88.2	0.0	0.0	0.0
10205	1	55.3	0.0	0.0	0.0
10209	1	54.4	0.0	0.0	0.0
10213	3	117.5	0.0	0.0	0.0
10217	2	78.1	0.0	0.0	0.0
10301	2	88.2	0.0	0.0	0.0
10305	1	55.3	0.0	0.0	0.0
10309	1	54.4	0.0	0.0	0.0
10313	3	117.5	0.0	0.0	0.0
10317	2	78.1	0.0	0.0	0.0
10401	2	88.2	0.0	0.0	0.0
10405	1	55.3	0.0	0.0	0.0
10002	2	85.6	0.0	0.0	0.0
10006	2	85.2	0.0	0.0	0.0
10010	2	89.3	0.0	0.0	0.0
10104	1	51.4	0.0	0.0	0.0
10108	2	85.2	0.0	0.0	0.0
10112	2	80.5	0.0	0.0	0.0
10202	2	85.1	0.0	0.0	0.0
10206	2	80.1	0.0	0.0	0.0
10210	1	55.6	0.0	0.0	0.0
10214	2	85.2	0.0	0.0	0.0
10218	3	90.7	0.0	0.0	0.0
10302	2	85.1	0.0	0.0	0.0
10306	2	80.1	0.0	0.0	0.0
10310	1	55.6	0.0	0.0	0.0
10314	2	85.2	0.0	0.0	0.0
10318	3	90.7	0.0	0.0	0.0
10402	2	85.1	0.0	0.0	0.0
10406	2	80.1	0.0	0.0	0.0
10003	2	86.3	0.0	0.0	0.0
10007	1	53.8	0.0	0.0	0.0
10101	2	95.7	0.0	0.0	0.0
10105	1	54.4	0.0	0.0	0.0
10109	2	85.2	0.0	0.0	0.0
10113	2	79.9	0.0	0.0	0.0
10203	1	56.9	0.0	0.0	0.0
10207	2	76.3	0.0	0.0	0.0
10211	3	95.5	0.0	0.0	0.0
10215	2	85.2	0.0	0.0	0.0
10219	2	80.5	0.0	0.0	0.0
10303	1	56.9	0.0	0.0	0.0
10307	2	76.3	0.0	0.0	0.0
10311	3	95.5	0.0	0.0	0.0
10315	2	85.2	0.0	0.0	0.0
10319	2	80.5	0.0	0.0	0.0
10403	1	56.9	0.0	0.0	0.0
10407	2	76.3	0.0	0.0	0.0
10004	3	117.5	0.0	0.0	0.0
10008	2	78.1	0.0	0.0	0.0
10102	2	85.1	0.0	0.0	0.0
10106	1	55.6	0.0	0.0	0.0
10110	1	53.8	0.0	0.0	0.0
10114	2	86.6	0.0	0.0	0.0
10204	1	49.3	0.0	0.0	0.0
10208	2	85.0	0.0	0.0	0.0
10212	2	86.6	0.0	0.0	0.0
10216	1	53.8	0.0	0.0	0.0
10220	2	79.9	0.0	0.0	0.0
10304	1	49.3	0.0	0.0	0.0
10308	2	85.0	0.0	0.0	0.0
10312	2	86.6	0.0	0.0	0.0
10316	1	53.8	0.0	0.0	0.0
10320	2	79.9	0.0	0.0	0.0
10404	1	49.3	0.0	0.0	0.0
10408	2	85.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
10409	1	54.4	0.0	0.0	0.0
10413	3	117.5	0.0	0.0	0.0
10417	2	78.1	0.0	0.0	0.0
10501	2	88.2	0.0	0.0	0.0
10505	1	55.3	0.0	0.0	0.0
10509	1	54.4	0.0	0.0	0.0
10513	3	117.5	0.0	0.0	0.0
10517	2	78.1	0.0	0.0	0.0
10601	2	88.2	0.0	0.0	0.0
10605	2	80.1	0.0	0.0	0.0
10609	1	55.6	0.0	0.0	0.0
10613	2	82.7	0.0	0.0	0.0
10617	2	80.5	0.0	0.0	0.0
10703	2	80.1	0.0	0.0	0.0
10707	2	85.0	0.0	0.0	0.0
10711	2	86.6	0.0	0.0	0.0
10715	3	121.3	0.0	0.0	0.0
10801	1	97.8	0.0	0.0	0.0
10805	2	80.1	0.0	0.0	0.0
10809	1	55.6	0.0	0.0	0.0
10904	1	58.1	0.0	0.0	0.0
10908	2	110.8	0.0	0.0	0.0
11004	2	85.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
10410	1	55.6	0.0	0.0	0.0
10414	2	85.2	0.0	0.0	0.0
10418	3	90.7	0.0	0.0	0.0
10502	2	85.1	0.0	0.0	0.0
10506	2	80.1	0.0	0.0	0.0
10510	1	55.6	0.0	0.0	0.0
10514	2	85.2	0.0	0.0	0.0
10518	3	90.7	0.0	0.0	0.0
10602	2	85.1	0.0	0.0	0.0
10606	2	76.3	0.0	0.0	0.0
10610	3	95.5	0.0	0.0	0.0
10614	2	82.7	0.0	0.0	0.0
10618	2	79.9	0.0	0.0	0.0
10704	2	78.7	0.0	0.0	0.0
10708	1	54.4	0.0	0.0	0.0
10712	3	103.6	0.0	0.0	0.0
10716	3	90.7	0.0	0.0	0.0
10802	2	85.1	0.0	0.0	0.0
10806	2	76.3	0.0	0.0	0.0
10901	3	94.4	0.0	0.0	0.0
10905	2	80.1	0.0	0.0	0.0
11001	3	122.3	0.0	0.0	0.0
11005	3	110.8	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
10411	3	95.5	0.0	0.0	0.0
10415	2	85.2	0.0	0.0	0.0
10419	2	80.5	0.0	0.0	0.0
10503	1	56.9	0.0	0.0	0.0
10507	2	76.3	0.0	0.0	0.0
10511	3	95.5	0.0	0.0	0.0
10515	2	85.2	0.0	0.0	0.0
10519	2	80.5	0.0	0.0	0.0
10603	2	80.1	0.0	0.0	0.0
10607	2	85.0	0.0	0.0	0.0
10611	2	86.6	0.0	0.0	0.0
10615	3	121.3	0.0	0.0	0.0
10701	2	88.2	0.0	0.0	0.0
10705	2	80.1	0.0	0.0	0.0
10709	1	55.6	0.0	0.0	0.0
10713	2	77.8	0.0	0.0	0.0
10717	2	80.5	0.0	0.0	0.0
10803	2	80.1	0.0	0.0	0.0
10807	2	85.0	0.0	0.0	0.0
10902	2	85.1	0.0	0.0	0.0
10906	2	76.3	0.0	0.0	0.0
11002	2	80.1	0.0	0.0	0.0
11101	2	90.2	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
10412	2	86.6	0.0	0.0	0.0
10416	1	53.8	0.0	0.0	0.0
10420	2	79.9	0.0	0.0	0.0
10504	1	49.3	0.0	0.0	0.0
10508	2	85.0	0.0	0.0	0.0
10512	2	86.6	0.0	0.0	0.0
10516	1	53.8	0.0	0.0	0.0
10520	2	79.9	0.0	0.0	0.0
10604	2	78.7	0.0	0.0	0.0
10608	1	54.4	0.0	0.0	0.0
10612	3	103.6	0.0	0.0	0.0
10616	3	90.7	0.0	0.0	0.0
10702	2	85.1	0.0	0.0	0.0
10706	2	76.3	0.0	0.0	0.0
10710	3	95.5	0.0	0.0	0.0
10714	2	77.8	0.0	0.0	0.0
10718	2	79.9	0.0	0.0	0.0
10804	2	78.7	0.0	0.0	0.0
10808	1	54.4	0.0	0.0	0.0
10903	1	60.0	0.0	0.0	0.0
10907	2	85.0	0.0	0.0	0.0
11003	2	76.3	0.0	0.0	0.0
11102	3	171.6	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
11103	3	145.2	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
1B101	3	124.2	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
1B102	3	123.9	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
1B103	3	117.9	0.0	0.0	0.0

Residential flat buildings - Building 2, 126 dwellings, 16 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
20001	3	100.9	0.0	0.0	0.0
20005	1	55.1	0.0	0.0	0.0
20103	2	73.1	0.0	0.0	0.0
20107	2	76.9	0.0	0.0	0.0
20201	2	82.6	0.0	0.0	0.0
20205	3	112.4	0.0	0.0	0.0
20209	2	82.1	0.0	0.0	0.0
20213	1	49.3	0.0	0.0	0.0
20304	1	49.1	0.0	0.0	0.0
20308	2	76.9	0.0	0.0	0.0
20312	2	83.0	0.0	0.0	0.0
20402	2	76.3	0.0	0.0	0.0
20406	3	112.4	0.0	0.0	0.0
20410	2	82.1	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
20002	1	55.1	0.0	0.0	0.0
20006	2	92.8	0.0	0.0	0.0
20104	3	112.4	0.0	0.0	0.0
20108	2	92.8	0.0	0.0	0.0
20202	1	47.8	0.0	0.0	0.0
20206	1	48.5	0.0	0.0	0.0
20210	1	52.3	0.0	0.0	0.0
20301	2	79.0	0.0	0.0	0.0
20305	2	73.1	0.0	0.0	0.0
20309	2	76.9	0.0	0.0	0.0
20313	2	71.9	0.0	0.0	0.0
20403	1	47.8	0.0	0.0	0.0
20407	1	48.5	0.0	0.0	0.0
20411	1	52.3	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
20003	1	55.1	0.0	0.0	0.0
20101	1	52.5	0.0	0.0	0.0
20105	1	48.5	0.0	0.0	0.0
20109	2	83.0	0.0	0.0	0.0
20203	1	49.1	0.0	0.0	0.0
20207	2	76.9	0.0	0.0	0.0
20211	2	83.0	0.0	0.0	0.0
20302	2	76.3	0.0	0.0	0.0
20306	3	112.4	0.0	0.0	0.0
20310	2	82.1	0.0	0.0	0.0
20314	1	49.3	0.0	0.0	0.0
20404	1	49.1	0.0	0.0	0.0
20408	2	76.9	0.0	0.0	0.0
20412	2	83.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
20004	1	55.1	0.0	0.0	0.0
20102	2	76.4	0.0	0.0	0.0
20106	2	76.9	0.0	0.0	0.0
20110	2	71.9	0.0	0.0	0.0
20204	2	73.1	0.0	0.0	0.0
20208	2	76.9	0.0	0.0	0.0
20212	2	71.9	0.0	0.0	0.0
20303	1	47.8	0.0	0.0	0.0
20307	1	48.5	0.0	0.0	0.0
20311	1	52.3	0.0	0.0	0.0
20401	2	79.0	0.0	0.0	0.0
20405	2	73.1	0.0	0.0	0.0
20409	2	76.9	0.0	0.0	0.0
20413	2	71.9	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
20414	1	49.3	0.0	0.0	0.0
20504	1	49.1	0.0	0.0	0.0
20508	2	76.9	0.0	0.0	0.0
20512	2	83.0	0.0	0.0	0.0
20602	1	55.0	0.0	0.0	0.0
20606	2	72.3	0.0	0.0	0.0
20610	2	71.9	0.0	0.0	0.0
20703	2	73.0	0.0	0.0	0.0
20707	2	84.3	0.0	0.0	0.0
20711	1	49.3	0.0	0.0	0.0
20804	2	83.0	0.0	0.0	0.0
20902	2	83.4	0.0	0.0	0.0
20906	3	105.9	0.0	0.0	0.0
21003	2	75.8	0.0	0.0	0.0
21101	2	82.6	0.0	0.0	0.0
21105	2	96.1	0.0	0.0	0.0
21301	3	199.4	0.0	0.0	0.0
2B102	3	115.6	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
20501	2	79.0	0.0	0.0	0.0
20505	2	73.1	0.0	0.0	0.0
20509	2	76.9	0.0	0.0	0.0
20513	2	71.9	0.0	0.0	0.0
20603	2	78.1	0.0	0.0	0.0
20607	3	92.3	0.0	0.0	0.0
20611	1	49.3	0.0	0.0	0.0
20704	2	75.4	0.0	0.0	0.0
20708	2	91.7	0.0	0.0	0.0
20801	2	82.6	0.0	0.0	0.0
20805	2	71.9	0.0	0.0	0.0
20903	2	75.8	0.0	0.0	0.0
20907	2	96.1	0.0	0.0	0.0
21004	3	110.7	0.0	0.0	0.0
21102	2	83.4	0.0	0.0	0.0
21201	3	124.2	0.0	0.0	0.0
21302	1	75.0	0.0	0.0	0.0
2B103	3	115.6	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
20502	2	76.3	0.0	0.0	0.0
20506	3	112.4	0.0	0.0	0.0
20510	2	82.1	0.0	0.0	0.0
20514	1	49.3	0.0	0.0	0.0
20604	2	75.4	0.0	0.0	0.0
20608	2	91.7	0.0	0.0	0.0
20701	2	79.0	0.0	0.0	0.0
20705	3	113.4	0.0	0.0	0.0
20709	2	83.0	0.0	0.0	0.0
20802	1	55.0	0.0	0.0	0.0
20806	1	49.3	0.0	0.0	0.0
20904	2	74.0	0.0	0.0	0.0
21001	2	82.6	0.0	0.0	0.0
21005	3	113.1	0.0	0.0	0.0
21103	2	75.8	0.0	0.0	0.0
21202	3	128.7	0.0	0.0	0.0
21401	4 or more bedrooms	221.9	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
20503	1	47.8	0.0	0.0	0.0
20507	1	48.5	0.0	0.0	0.0
20511	1	52.3	0.0	0.0	0.0
20601	2	79.0	0.0	0.0	0.0
20605	3	119.9	0.0	0.0	0.0
20609	2	83.0	0.0	0.0	0.0
20702	1	55.0	0.0	0.0	0.0
20706	2	72.2	0.0	0.0	0.0
20710	2	71.9	0.0	0.0	0.0
20803	2	91.7	0.0	0.0	0.0
20901	2	82.6	0.0	0.0	0.0
20905	2	84.2	0.0	0.0	0.0
21002	2	83.4	0.0	0.0	0.0
21006	2	96.1	0.0	0.0	0.0
21104	3	117.5	0.0	0.0	0.0
21203	3	110.9	0.0	0.0	0.0
2B101	3	101.1	0.0	0.0	0.0

Description of project

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

Common areas of unit building - Building 1

Common area	Floor area (m²)
Car park area - Building 1	8752.0
Garbage rooms - Building 1	53.0
Upper level corridors - Building 1	1479.0

Common area	Floor area (m²)
Lift car (No.1)	-
Plant or service rooms - Building 1	661.0

Common area	Floor area (m²)
Switch rooms - Building 1	71.0
Ground floor lobby - Building 1	44.0

Common areas of unit building - Building 2

Common area	Floor area (m²)
Car park area - Building 2	5107.0
Switch rooms - Building 2	64.0
Ground floor lobby - Building 2	102.0

Common area	Floor area (m²)
Lift car (No.2)	-
Garbage rooms - Building 2	47.0
Upper level corridors - Building 2	260.0

Common area	Floor area (m²)
Lift car (No.3)	-
Plant or service rooms - Building 2	529.0

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building 1
    - (a) Dwellings
        - (i) Water
        - (ii) Energy
        - (iii) Thermal Comfort
    - (b) Common areas and central systems/facilities
        - (i) Water
        - (ii) Energy

2. Commitments for Residential flat buildings - Building 2
    - (a) Dwellings
        - (i) Water
        - (ii) Energy
        - (iii) Thermal Comfort
    - (b) Common areas and central systems/facilities
        - (i) Water
        - (ii) Energy

3. Commitments for multi-dwelling houses

4. Commitments for single dwelling houses

5. 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 Residential flat buildings - Building 1

(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 (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	no	4 star	6 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	central water tank (no. 1)	See central systems	See central systems	no	yes	yes	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	individual fan, ducted to façade or roof	interlocked to light	individual fan, ducted to façade or roof	interlocked to light	individual fan, ducted to façade or roof	interlocked to light

	Cooling		Heating		Artificial lighting						Natural lighting	
Dwelling no.	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
All dwellings	1-phase airconditioning EER 3.5 - 4.0	airconditioning ducting only	1-phase airconditioning EER 3.5 - 4.0	airconditioning ducting only	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	-

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	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	-	-	4.5 star	-	4.5 star	yes	-

(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.			
(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.		✔	

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✔	✔	✔

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
10001	36.2	12.9
10002	31.9	7.0
10003	33.8	8.8
10004	4.1	15.6
10005	8.5	13.2
10006	19.2	12.6
10007	8.6	18.5
10008	32.0	9.9
10009	34.7	11.3
10010	38.8	8.8
10101	25.9	14.1
10102	25.5	9.2
10103	34.1	7.4
10104	10.8	13.7
10105	12.7	10.5

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
10106	11.2	9.8
10107	3.3	20.1
10108	8.8	12.9
10109	8.5	12.3
10110	8.8	17.7
10111	12.8	11.0
10112	19.4	9.7
10113	14.4	11.0
10114	12.8	11.6
10201	18.1	12.9
10202	21.6	7.3
10203	35.9	8.4
10204	34.5	13.7
10205	40.7	11.2
10206	3.4	10.8
10207	12.1	6.6
10208	13.7	10.9
10209	14.5	9.3
10210	13.0	8.8
10211	30.9	10.0
10212	3.4	9.6
10213	4.4	14.8
10214	10.8	10.1
10215	10.5	10.0
10216	10.5	13.4
10217	14.8	9.0
10218	40.6	5.6

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
10219	21.4	7.8
10220	14.4	8.7
10301	18.6	12.2
10302	21.8	7.2
10304	12.5	16.1
10306	15.8	12.2
10307	5.0	6.8
10308	8.8	12.1
10309	14.5	9.0
10310	12.7	9.0
10312	3.7	9.4
10313	4.6	14.3
10314	11.2	9.6
10315	10.9	9.4
10316	10.9	12.6
10317	15.2	8.6
10318	21.8	8.5
10319	21.7	7.5
10320	14.6	8.6
10401	18.8	12.1
10402	21.9	7.2
10404	12.5	16.0
10405	17.0	12.7
10406	15.9	12.2
10407	5.2	6.4
10408	8.5	14.0
10409	14.0	9.2

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
10410	11.9	8.7
10411	12.8	11.9
10412	3.9	9.2
10413	4.8	14.3
10414	11.4	9.5
10415	11.1	9.3
10416	11.1	12.6
10417	15.4	8.7
10419	21.7	7.4
10420	14.7	8.6
10501	18.9	12.2
10503	13.3	9.8
10504	12.6	16.1
10507	5.4	6.4
10508	7.9	15.6
10509	12.7	9.5
10510	11.0	8.7
10512	4.1	8.8
10513	8.1	15.2
10514	19.3	9.2
10515	18.9	9.6
10516	17.4	12.9
10517	23.8	8.7
10518	22.0	8.3
10519	21.6	7.4
10520	14.8	8.6
10601	19.1	12.2

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
10602	21.9	7.3
10603	17.5	8.0
10604	20.5	10.0
10607	7.2	16.8
10608	11.2	9.3
10609	11.3	8.8
10610	12.7	12.0
10611	4.2	8.8
10612	4.0	14.8
10613	11.3	9.8
10614	10.9	10.1
10615	11.3	11.9
10616	22.0	8.0
10617	22.0	7.2
10618	14.9	8.6
10701	19.2	12.2
10702	21.5	7.3
10703	17.3	8.0
10704	20.3	10.7
10705	15.9	12.7
10707	6.4	17.9
10708	8.9	9.7
10709	9.8	8.7
10710	28.0	14.1
10711	9.5	26.3
10712	14.1	24.6
10713	19.6	13.7

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
10714	18.8	13.6
10715	22.6	23.1
10716	34.0	8.5
10717	38.2	7.9
10718	30.5	9.1
10801	15.3	11.5
10802	21.0	7.6
10803	23.3	9.6
10804	29.1	11.9
10805	15.7	13.1
10806	5.7	6.4
10807	5.4	18.5
10808	7.6	9.8
10809	8.6	8.8
10901	25.5	13.7
10902	37.7	7.7
10903	27.6	14.1
10904	14.6	12.8
10905	14.5	18.0
10906	5.8	6.5
10907	5.4	18.6
10908	6.5	8.4
11001	37.4	14.6
11002	24.0	18.2
11003	10.2	6.4
11004	5.5	18.3
11005	7.3	7.1

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
11101	29.7	14.5
11102	16.9	10.8
11103	12.2	10.1
1B101	23.5	11.5
1B102	25.9	10.9
1B103	22.2	9.8
10303, 10403	13.3	9.3
10305, 10505	16.9	12.6
10311, 10511	12.8	11.8
10418, 10502	21.9	8.2
10506, 10605	16.0	12.7
All other dwellings	5.6	6.5

(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	5 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Central water tank - rainwater or stormwater (No. 1)	70000.0	To collect run-off from at least: - 1780.0 square metres of roof area of buildings in the development - 1500.0 square metres of impervious area in the development - 0.0 square metres of garden/lawn area in the development - 0.0 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system).	- irrigation of 796.0 square metres of common landscaped area on the site - car washing in 1 car washing bays on the site
Fire sprinkler system (No. 1)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

(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 - Building 1	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	motion sensors	No
Lift car (No.1)	-	-	light-emitting diode	connected to lift call button	No
Switch rooms - Building 1	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	No
Garbage rooms - Building 1	ventilation exhaust only	-	light-emitting diode	motion sensors	No
Plant or service rooms - Building 1	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	No
Ground floor lobby - Building 1	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	No
Upper level corridors - Building 1	no mechanical ventilation	-	light-emitting diode	motion sensors	No

Central energy systems	Type	Specification
Central hot water system (No. 1)	gas-fired storage (manifolded)	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.75 (~32 mm); (b) Piping internal to building: R0.75 (~32 mm)

Central energy systems	Type	Specification
Lift (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 15

2. Commitments for Residential flat buildings - Building 2

(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 (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	no	4 star	6 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	central water tank (no. 2)	See central systems	See central systems	no	yes	yes	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 2	individual fan, ducted to façade or roof	interlocked to light	individual fan, ducted to façade or roof	interlocked to light	individual fan, ducted to façade or roof	interlocked to light

	Cooling		Heating		Artificial lighting						Natural lighting	
Dwelling no.	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
All dwellings	1-phase airconditioning EER 3.5 - 4.0	airconditioning ducting only	1-phase airconditioning EER 3.5 - 4.0	airconditioning ducting only	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	-

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	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	-	-	4.5 star	-	4.5 star	yes	-

(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.			
(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.		✔	

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✔	✔	✔

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
20001	8.9	15.4
20002	5.4	15.7
20005	7.8	15.7
20006	24.8	10.7
20101	16.9	9.7
20102	33.6	7.7
20103	26.9	8.1
20104	16.3	16.8
20105	20.4	11.4
20106	15.7	12.6
20107	17.4	12.6
20108	21.3	11.6
20109	39.1	9.4
20110	31.0	5.8
20201	32.7	12.9

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
20202	30.8	8.3
20203	9.5	8.4
20204	12.6	7.5
20205	18.4	12.7
20206	22.7	9.4
20209	32.8	8.4
20210	23.7	7.8
20211	22.6	9.6
20212	15.8	5.6
20213	31.6	7.5
20301	25.1	14.5
20302	42.3	5.7
20303	11.7	10.0
20304	9.4	7.9
20305	12.4	7.4
20306	18.4	12.6
20310	33.2	8.5
20311	23.8	7.4
20312	22.8	9.4
20314	31.7	7.4
20401	24.0	14.6
20402	20.4	7.2
20403	11.3	9.5
20404	9.5	7.8
20405	11.7	6.9
20406	18.0	12.2
20407	23.5	9.2

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
20410	33.6	8.3
20411	24.1	7.5
20414	31.7	7.2
20501	21.7	14.9
20502	28.7	7.9
20503	13.6	9.3
20504	16.2	7.7
20505	17.1	7.4
20506	24.6	12.4
20507	32.3	8.7
20510	40.6	8.4
20511	24.2	7.3
20512	23.3	9.3
20513	15.7	5.5
20514	31.5	7.0
20601	19.3	15.8
20602	16.4	7.5
20603	18.0	5.6
20604	14.0	6.0
20605	16.3	6.9
20606	15.5	8.2
20607	16.8	11.6
20608	26.9	7.8
20609	23.2	9.5
20610	15.4	5.9
20611	31.1	7.7
20701	17.9	16.6

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
20702	10.0	7.2
20703	20.8	8.3
20704	24.1	6.1
20705	22.1	14.7
20706	25.5	8.0
20707	31.4	12.4
20708	27.2	7.9
20709	22.8	9.8
20710	14.9	5.7
20711	30.7	7.9
20801	17.2	17.1
20802	10.8	7.1
20803	30.1	7.9
20804	31.8	10.9
20805	16.4	6.1
20806	30.2	8.2
20905	25.5	7.0
20906	26.0	6.3
20907	26.2	8.2
21001	14.4	5.3
21002	23.2	6.3
21003	17.4	14.6
21004	6.9	10.0
21005	11.9	7.3
21006	17.1	13.0
21101	40.0	9.2
21102	22.7	6.6

	Thermal loads	
Dwelling no.	**Area adjusted heating load (in mJ/m²/yr)**	**Area adjusted cooling load (in mJ/m²/yr)**
21103	27.4	16.0
21104	7.6	10.1
21105	12.0	7.5
21201	29.9	9.9
21202	18.8	13.1
21203	28.8	8.0
21301	16.7	8.4
21302	33.8	7.8
21401	23.2	7.4
2B101	16.4	17.8
2B102	22.6	13.6
2B103	17.7	13.3
20003, 20004	4.0	16.7
20207, 20208	18.0	9.8
20307, 20412	23.1	9.2
20308, 20309	18.4	9.5
20313, 20413	15.8	5.7
20408, 20409	18.7	9.3
20508, 20509	20.4	9.5
20901, 20903	17.8	13.9
All other dwellings	7.8	9.8

(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	5 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Central water tank - rainwater or stormwater (No. 2)	60000.0	To collect run-off from at least: - 1310.0 square metres of roof area of buildings in the development - 1500.0 square metres of impervious area in the development - 0.0 square metres of garden/lawn area in the development - 0.0 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system).	- irrigation of 667.0 square metres of common landscaped area on the site - car washing in 1 car washing bays on the site
Fire sprinkler system (No. 2)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

(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 - Building 2	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	motion sensors	No
Lift car (No.2)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.3)	-	-	light-emitting diode	connected to lift call button	No
Switch rooms - Building 2	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	No
Garbage rooms - Building 2	ventilation exhaust only	-	light-emitting diode	motion sensors	No
Plant or service rooms - Building 2	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	No
Ground floor lobby - Building 2	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	No
Upper level corridors - Building 2	no mechanical ventilation	-	light-emitting diode	motion sensors	No

Central energy systems	Type	Specification
Central hot water system (No. 2)	gas-fired storage (manifolded)	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.75 (~32 mm); (b) Piping internal to building: R0.75 (~32 mm)
Lift (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 18
Lift (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 18

5. 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	5 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.	✔	✔	✔

Central energy systems	Type	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 155.0 peak kW

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).

Nationwide House Energy Rating Scheme* — Class 2 summary

Certificate number: **0003335990** Certificate Date: **08 Nov 2018** ★Average Star rating: **7.9**

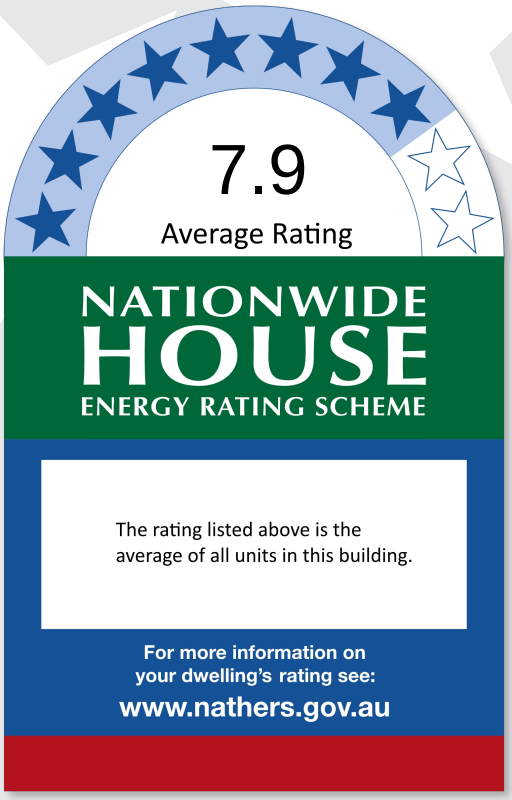
Assessor details

Accreditation number:	**20754**
Name:	**Adriana Segovia**
Organisation:	**ESD Synergy Pty Ltd**
Email:	**adrianas@esdsynergy.com**
Phone:	**0413591688**
Declaration of interest:	**None**
Software:	**BERS Pro v4.3.0.2c (3.13)**
AAO:	**ABSA**

Dwelling details

Street:	**1-2 Murray Rose Ave**
Suburb:	**Olympic Park**
State:	**NSW**
Postcode:	**2127**

Scan to access this certificate online and confirm this is valid.



Summary of all dwellings

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003333879-01	10001	36.2	12.9	49.1	6.2
0003333945-01	10002	31.9	7.0	38.9	7
0003333911-01	10003	33.8	8.8	42.5	6.8
0003334125-01	10004	4.1	15.6	19.7	8.5
0003334083-01	10005	8.5	13.2	21.8	8.4
0003334042-01	10006	19.2	12.6	31.8	7.5
0003333994-01	10007	8.6	18.5	27.1	7.9
0003333952-01	10008	32.0	9.9	41.8	6.8
0003333838-01	10009	34.7	11.3	46.0	6.4
0003333853-01	10010	38.8	8.8	47.6	6.3
0003335379-01	10101	25.9	14.1	40.0	6.9
0003335346-01	10102	25.5	9.2	34.7	7.4
0003334158-01	10103	34.1	7.4	41.5	6.8
0003334174-01	10104	10.8	13.7	24.4	8.2
0003335288-01	10105	12.7	10.5	23.3	8.3

* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

Summary of all dwellings continued

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003335254-01	10106	11.2	9.8	21.0	8.4
0003335221-01	10107	3.3	20.1	23.4	8.3
0003335197-01	10108	8.8	12.9	21.7	8.4
0003335163-01	10109	8.5	12.3	20.8	8.4
0003334018-01	10110	8.8	17.7	26.5	7.9
0003335130-01	10111	12.8	11.0	23.8	8.2
0003335114-01	10112	19.4	9.7	29.1	7.8
0003335064-01	10113	14.4	11.0	25.4	8.1
0003335478-01	10114	12.8	11.6	24.4	8.2
0003335445-01	10201	18.1	12.9	31.0	7.6
0003335312-01	10202	21.6	7.3	28.9	7.8
0003335411-01	10203	35.9	8.4	44.3	6.6
0003335387-01	10204	34.5	13.7	48.2	6.3
0003335353-01	10205	40.7	11.2	51.9	5.9
0003335320-01	10206	33.4	10.8	44.3	6.6
0003335296-01	10207	12.1	6.6	18.8	8.7
0003334570-01	10208	13.7	10.9	24.6	8.2
0003335262-01	10209	14.5	9.3	23.8	8.2
0003335239-01	10210	13.0	8.8	21.8	8.4
0003335171-01	10211	30.9	10.0	40.9	6.9
0003335452-01	10212	3.4	9.6	13.1	9.1
0003335072-01	10213	4.4	14.8	19.1	8.6
0003335486-01	10214	10.8	10.1	20.8	8.4
0003335460-01	10215	10.5	10.0	20.4	8.4
0003335437-01	10216	10.5	13.4	23.9	8.2
0003335403-01	10217	14.8	9.0	23.7	8.2
0003335205-01	10218	40.6	5.6	46.1	6.4
0003335106-01	10219	21.4	7.8	29.2	7.8
0003335148-01	10220	14.4	8.7	23.1	8.3
0003335429-01	10301	18.6	12.2	30.7	7.7
0003335270-01	10302	21.8	7.2	29.1	7.8
0003335080-01	10303	13.3	9.3	22.5	8.3
0003334992-01	10304	12.5	16.1	28.6	7.8
0003334901-01	10305	16.9	12.6	29.5	7.8
0003334810-01	10306	15.8	12.2	28.0	7.9
0003334885-01	10307	5.0	6.8	11.8	9.3
0003334547-01	10308	8.8	12.1	20.9	8.4
0003334653-01	10309	14.5	9.0	23.5	8.3
0003334489-01	10310	12.7	9.0	21.7	8.4
0003334893-01	10311	12.8	11.8	24.6	8.2
0003334745-01	10312	3.7	9.4	13.1	9.1
0003334604-01	10313	4.6	14.3	18.9	8.6
0003334513-01	10314	11.2	9.6	20.8	8.4

Summary of all dwellings continued

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003334406-01	10315	10.9	9.4	20.3	8.4
0003334331-01	10316	10.9	12.6	23.5	8.3
0003334240-01	10317	15.2	8.6	23.8	8.2
0003334141-01	10318	21.8	8.5	30.3	7.7
0003333986-01	10319	21.7	7.5	29.1	7.8
0003334430-01	10320	14.6	8.6	23.1	8.3
0003335395-01	10401	18.8	12.1	30.8	7.6
0003335247-01	10402	21.9	7.2	29.0	7.8
0003335056-01	10403	13.3	9.3	22.6	8.3
0003334968-01	10404	12.5	16.0	28.5	7.8
0003334877-01	10405	17.0	12.7	29.7	7.7
0003334786-01	10406	15.9	12.2	28.1	7.9
0003334851-01	10407	5.2	6.4	11.6	9.3
0003334497-01	10408	8.5	14.0	22.5	8.3
0003334612-01	10409	14.0	9.2	23.2	8.3
0003335049-01	10410	11.9	8.7	20.6	8.4
0003334869-01	10411	12.8	11.9	24.7	8.2
0003334711-01	10412	3.9	9.2	13.1	9.1
0003334562-01	10413	4.8	14.3	19.1	8.6
0003334463-01	10414	11.4	9.5	20.9	8.4
0003334380-01	10415	11.1	9.3	20.4	8.4
0003334299-01	10416	11.1	12.6	23.7	8.2
0003334216-01	10417	15.4	8.7	24.1	8.2
0003334109-01	10418	21.9	8.2	30.0	7.7
0003333960-01	10419	21.7	7.4	29.2	7.8
0003334414-01	10420	14.7	8.6	23.3	8.3
0003335361-01	10501	18.9	12.2	31.1	7.6
0003335213-01	10502	21.9	7.3	29.2	7.8
0003335023-01	10503	13.3	9.8	23.2	8.3
0003334935-01	10504	12.6	16.1	28.7	7.8
0003334844-01	10505	16.9	12.6	29.5	7.8
0003334752-01	10506	16.0	12.7	28.7	7.8
0003334828-01	10507	5.4	6.4	11.7	9.3
0003334471-01	10508	7.9	15.6	23.5	8.3
0003334588-01	10509	12.7	9.5	22.2	8.4
0003335015-01	10510	11.0	8.7	19.8	8.5
0003334836-01	10511	12.8	11.8	24.6	8.2
0003334695-01	10512	4.1	8.8	12.9	9.2
0003334521-01	10513	8.1	15.2	23.3	8.3
0003334455-01	10514	19.3	9.2	28.5	7.8
0003334356-01	10515	18.9	9.6	28.5	7.8
0003334265-01	10516	17.4	12.9	30.3	7.7
0003334182-01	10517	23.8	8.7	32.5	7.4

Summary of all dwellings continued

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003334091-01	10518	22.0	8.3	30.2	7.7
0003333929-01	10519	21.6	7.4	29.0	7.8
0003334372-01	10520	14.8	8.6	23.4	8.3
0003335338-01	10601	19.1	12.2	31.3	7.6
0003335189-01	10602	21.9	7.3	29.2	7.8
0003334281-01	10603	17.5	8.0	25.5	8.1
0003334208-01	10604	20.5	10.0	30.5	7.7
0003334729-01	10605	16.0	12.7	28.7	7.8
0003334794-01	10606	5.6	6.5	12.1	9.2
0003335031-01	10607	7.2	16.8	24.0	8.2
0003334554-01	10608	11.2	9.3	20.5	8.4
0003334984-01	10609	11.3	8.8	20.1	8.4
0003334802-01	10610	12.7	12.0	24.6	8.2
0003334661-01	10611	4.2	8.8	13.0	9.1
0003334422-01	10612	6.0	14.8	20.9	8.4
0003334364-01	10613	11.3	9.8	21.1	8.4
0003334323-01	10614	10.9	10.1	21.0	8.4
0003334307-01	10615	11.3	11.9	23.2	8.3
0003334067-01	10616	22.0	8.0	30.0	7.7
0003333895-01	10617	22.0	7.2	29.2	7.8
0003334349-01	10618	14.9	8.6	23.4	8.3
0003335304-01	10701	19.2	12.2	31.4	7.6
0003335155-01	10702	21.5	7.3	28.8	7.8
0003334273-01	10703	17.3	8.0	25.3	8.1
0003334166-01	10704	20.3	10.7	31.0	7.6
0003334687-01	10705	15.9	12.7	28.7	7.8
0003334760-01	10706	5.6	6.5	12.2	9.2
0003335007-01	10707	6.4	17.9	24.3	8.2
0003334539-01	10708	8.9	9.7	18.6	8.7
0003334950-01	10709	9.8	8.7	18.5	8.7
0003334778-01	10710	28.0	14.1	42.2	6.8
0003334638-01	10711	16.9	9.5	26.3	7.9
0003334398-01	10712	14.1	24.3	38.4	7.1
0003334224-01	10713	19.6	13.7	33.3	7.4
0003334190-01	10714	18.8	13.6	32.4	7.4
0003334257-01	10715	22.6	23.1	45.7	6.4
0003334026-01	10716	34.0	8.5	42.5	6.8
0003333861-01	10717	38.2	7.9	46.1	6.4
0003334315-01	10718	30.5	9.1	39.6	6.9
0003334117-01	10801	15.3	11.5	26.8	7.9
0003335122-01	10802	21.0	7.6	28.6	7.8
0003334232-01	10803	23.3	9.6	33.0	7.4
0003334133-01	10804	29.1	11.9	41.0	6.9

Summary of all dwellings continued

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003334646-01	10805	15.7	13.1	28.8	7.8
0003334737-01	10806	5.7	6.4	12.2	9.2
0003334976-01	10807	5.4	18.5	23.9	8.2
0003334505-01	10808	7.6	9.8	17.4	8.8
0003334927-01	10809	8.6	8.8	17.4	8.8
0003334075-01	10901	25.5	13.7	39.3	6.9
0003335098-01	10902	37.7	7.7	45.4	6.4
0003334059-01	10903	27.6	14.1	41.7	6.8
0003334034-01	10904	14.6	12.8	27.4	7.9
0003334620-01	10905	14.5	18.0	32.6	7.4
0003334703-01	10906	5.8	6.5	12.3	9.2
0003334943-01	10907	5.4	18.6	24.0	8.2
0003334000-01	10908	6.5	8.4	14.9	8.9
0003333903-01	11001	37.4	14.6	52.0	5.9
0003334596-01	11002	24.0	18.2	42.3	6.8
0003334679-01	11003	10.2	6.4	16.6	8.8
0003334919-01	11004	5.5	18.3	23.8	8.2
0003333978-01	11005	7.3	7.1	14.4	8.9
0003333937-01	11101	29.7	14.5	44.2	6.6
0003333887-01	11102	16.9	10.8	27.7	7.9
0003334448-01	11103	12.2	10.1	22.2	8.4
0003333820-01	1B101	23.5	11.5	35.0	7.3
0003333846-01	1B102	25.9	10.9	36.8	7.2
0003333812-01	1B103	22.2	9.8	32.1	7.4

Nationwide House Energy Rating Scheme* — Class 2 summary

Certificate number: **0003333790** Certificate Date: **08 Nov 2018** ★Average Star rating: **7.7**

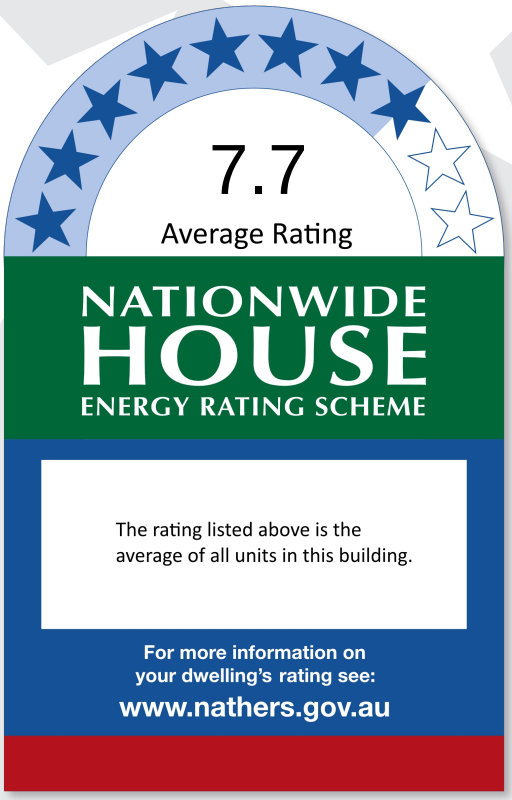
Assessor details

Accreditation number:	**20241**
Name:	**Henky Mantophani**
Organisation:	**ESD Synergy Pty Ltd**
Email:	**info@esdsynergy.com**
Phone:	**0497979868**
Declaration of interest:	**The Assessor has provided design advice to the Applicant**
Software:	**BERS Pro v4.3.0.2d (3.13)**
AAO:	**ABSA**

Dwelling details

Street:	**1-2 Murray Rose Ave**
Suburb:	**Olympic Park**
State:	**NSW**
Postcode:	**2127**

Scan to access this certificate online and confirm this is valid.



Summary of all dwellings

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003332541	2B101	16.4	17.8	34.2	7.4
0003332558	2B102	22.6	13.6	36.2	7.2
0003332608	2B103	17.7	13.3	31.1	7.6
0003332624	20001	8.9	15.4	24.3	8.2
0003332640	20002	5.4	15.7	21.1	8.4
0003332533	20003	4.0	16.7	20.7	8.4
0003332574	20004	4.0	16.7	20.7	8.4
0003332590	20005	7.8	15.7	23.5	8.3
0003332616	20006	24.8	10.7	35.5	7.3
0003332632	20101	16.9	9.7	26.6	7.9
0003332525	20102	33.6	7.7	41.4	6.9
0003332566	20103	26.9	8.1	34.9	7.3
0003332582	20104	16.3	16.8	33.1	7.4
0003332657	20105	20.4	11.4	31.8	7.5
0003332707	20106	15.7	12.6	28.2	7.9

* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

Summary of all dwellings continued

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003332715	20107	17.4	12.6	30.0	7.7
0003332749	20108	21.3	11.6	32.9	7.4
0003332772	20109	39.1	9.4	48.5	6.3
0003332822	20110	31.0	5.8	36.8	7.2
0003332855	20201	32.7	12.9	45.6	6.4
0003332889	20202	30.8	8.3	39.1	6.9
0003332897	20203	9.5	8.4	17.8	8.7
0003332939	20204	12.6	7.5	20.1	8.4
0003332962	20205	18.4	12.7	31.2	7.6
0003333002	20206	22.7	9.4	32.1	7.4
0003333036	20207	18.0	9.8	27.8	7.9
0003333069	20208	18.0	9.8	27.8	7.9
0003333085	20209	32.8	8.4	41.2	6.9
0003333135	20210	23.7	7.5	31.2	7.6
0003333150	20211	22.6	9.6	32.2	7.4
0003333192	20212	15.8	5.6	21.3	8.4
0003333200	20213	31.6	7.5	39.2	6.9
0003333242	20301	25.1	14.5	39.5	6.9
0003333267	20302	42.3	5.7	48.0	6.3
0003333309	20303	11.7	10.0	21.7	8.4
0003333325	20304	9.4	7.9	17.3	8.8
0003333358	20305	12.4	7.4	19.7	8.5
0003333390	20306	18.4	12.6	31.0	7.6
0003332673	20307	23.1	9.2	32.3	7.4
0003332699	20308	18.4	9.5	27.9	7.9
0003332723	20309	18.4	9.5	27.9	7.9
0003332764	20310	33.2	8.5	41.7	6.8
0003332798	20311	23.8	7.4	31.2	7.6
0003332814	20312	22.8	9.4	32.2	7.4
0003332830	20313	15.8	5.7	21.5	8.4
0003332863	20314	31.7	7.4	39.1	6.9
0003332905	20401	24.0	14.6	38.6	7.1
0003332921	20402	20.4	7.2	27.7	7.9
0003332954	20403	11.3	9.5	20.8	8.4
0003332988	20404	9.5	7.8	17.3	8.8
0003333010	20405	11.7	6.9	18.6	8.7
0003333044	20406	18.0	12.2	30.2	7.7
0003333077	20407	23.5	9.2	32.6	7.4
0003333101	20408	18.7	9.3	28.0	7.9
0003333119	20409	18.7	9.3	28.0	7.9
0003333168	20410	33.6	8.3	41.8	6.8
0003333184	20411	24.1	7.5	31.5	7.6
0003333218	20412	23.1	9.2	32.3	7.4

Summary of all dwellings continued

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003333234	20413	15.8	5.7	21.6	8.4
0003333275	20414	31.7	7.2	38.9	7
0003333291	20501	21.7	14.9	36.6	7.2
0003333333	20502	28.7	7.9	36.5	7.2
0003333374	20503	13.6	9.3	22.9	8.3
0003332665	20504	16.2	7.7	23.9	8.2
0003332681	20505	17.1	7.4	24.6	8.2
0003332731	20506	24.6	12.4	37.1	7.2
0003332756	20507	32.3	8.7	41.0	6.9
0003332780	20508	20.4	9.5	29.9	7.7
0003332806	20509	20.4	9.5	29.9	7.7
0003332848	20510	40.6	8.4	49.0	6.2
0003332871	20511	24.2	7.3	31.5	7.6
0003332913	20512	23.3	9.3	32.5	7.4
0003332947	20513	15.7	5.5	21.2	8.4
0003332970	20514	31.5	7.0	38.5	7.1
0003332996	20601	19.3	15.8	35.1	7.3
0003333028	20602	16.4	7.5	23.9	8.2
0003333051	20603	18.0	5.6	23.6	8.2
0003333093	20604	14.0	6.0	20.0	8.4
0003333788	20605	16.3	6.9	23.2	8.3
0003333143	20606	15.5	8.2	23.8	8.2
0003333176	20607	16.8	11.6	28.4	7.9
0003333226	20608	26.9	7.8	34.7	7.4
0003333259	20609	23.2	9.5	32.7	7.4
0003333283	20610	15.4	5.9	21.3	8.4
0003333317	20611	31.1	7.7	38.8	7
0003333341	20701	17.9	16.6	34.5	7.4
0003333366	20702	10.0	7.2	17.2	8.8
0003333382	20703	20.8	8.3	29.2	7.8
0003333424	20704	24.1	6.1	30.2	7.7
0003333127-03	20705	22.1	14.7	36.8	7.2
0003333473	20706	25.5	8.0	33.5	7.4
0003333481	20707	31.4	12.4	43.8	6.7
0003333523	20708	27.2	7.9	35.0	7.3
0003333556	20709	22.8	9.8	32.6	7.4
0003333580	20710	14.9	5.7	20.6	8.4
0003333606	20711	30.7	7.9	38.6	7.1
0003333630	20801	17.2	17.1	34.3	7.4
0003333663	20802	10.9	7.1	18.0	8.7
0003333713	20803	30.1	7.9	38.0	7.1
0003333747	20804	31.8	10.9	42.7	6.7
0003333770	20805	16.4	6.1	22.4	8.3

Summary of all dwellings continued

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003333416	20806	30.2	8.2	38.4	7.1
0003333440	20901	17.8	13.9	31.7	7.6
0003333465	20902	7.8	9.8	17.6	8.7
0003333507	20903	25.5	7.0	32.5	7.4
0003333515	20904	26.0	6.3	32.3	7.4
0003333549	20905	26.2	8.2	34.4	7.4
0003333572	20906	14.4	5.3	19.7	8.6
0003333614	20907	23.2	6.3	29.5	7.8
0003333648	21001	17.4	14.6	32.0	7.4
0003333671	21002	6.9	10.0	16.9	8.8
0003333697	21003	11.9	7.3	19.3	8.6
0003333721	21004	17.1	13.0	30.1	7.7
0003333762	21005	40.0	9.2	49.2	6.2
0003333408	21006	22.7	6.6	29.3	7.8
0003333432	21101	27.4	16.0	43.3	6.7
0003333457	21102	7.6	10.1	17.7	8.7
0003333499	21103	12.0	7.5	19.5	8.6
0003333531	21104	29.9	9.9	39.9	6.9
0003333564	21105	22.6	6.4	28.9	7.8
0003333598	21201	14.6	7.1	21.8	8.4
0003333622	21202	18.8	13.1	31.9	7.5
0003333655	21203	28.8	8.0	36.8	7.2
0003333689	21301	16.7	8.4	25.0	8.1
0003333705	21302	33.8	7.8	41.7	6.8
0003333739	21401	23.2	7.4	30.5	7.7

NatHERS Summary Assessment Report

1 & 2 Murray Rose Ave Olympic Park NSW

Attention	Will Wang
Client	Austino
Date	09/11/2018
Revision	00
Subject	NatHERS Summary Assessment Report

1. SITE APPRECIATION

The proposed development is located at 1 & 2 Murray Rose Ave Olympic Park and consists of:

- 294 apartments over 2 buildings

2. BASIX THERMAL COMFORT SECTION

The thermal performance of the development has been evaluated using BERS Pro 2nd Generation software. The BERS Pro computer simulation of residential developments forms part of the Nationwide House Energy Rating Scheme, and is used to assess the potential of a residential development to have low heating and cooling energy requirements once operational.

2.1 MODELLING ASSUMPTIONS

The "base-case" building fabric and glazing and associated thermal performance specifications are described in Table 2 below as these assumptions are based on the nominated preferred construction materials indicated by the architect.

Note: Table 1 must be read in conjunction with Table 2. Table 2 outlines additional thermal enhancements / treatments to meet the mandatory thermal load targets to achieve compliance.

Note: this report is only a summary guide to the thermal requirements, for full details of thermal requirements please refer to the individual thermal certificate. Where required the development shall comply with the minimum requirements of the NCC Vol 1 & 2 and in particular the following.

- NCC Vol 1 – NSW Section J
- Thermal construction in accordance with Vol 1 section J1.2 or Vol 2 part 3.12.1.1
- Thermal breaks in accordance with section J1.3(d) & 1.5(c) or part 3.12.1.2(c) & 3.12.1.4(b)
- Compensation for loss of ceiling insulation in accordance with section J1.3(C) or Part 3.12.1.2(e)
- Floor insulation in accordance with Section J1.6(c) &(d) or Part 3.12.1.5(a)(ii) or (c) & (d)
- Building sealing in accordance with Section J3 or Part 3.12.3.1 to 3.12.3.6

Table 1: Base Case Assumptions on Construction and Fabric

Element	*Material*	*Detail*
External walls	Hebel Power Panel, Concrete & Lightweight Cladding	**Insulation: See Table 2 & 3**
		Medium to Dark colour
Internal walls	Plasterboard	
Windows	**See Table 2 for total window properties** If not specified in Table 2, window properties should be specified as per the details in this Table	Total Window System Properties **U-value 6.7 & SHGC 0.70 (for Sliding Doors, Sliding Windows, Fixed windows)**
		Total Window System Properties **U-value 6.7 & SHGC 0.57 (for Awning Windows, Bifolds, Casements)**
	Window Operability	**As per plans & elevations**
	Shading device	**As per plans & elevations**
Skylight	**None**	**None**
Roof	Concrete	**Insulation: See Table 2 & 3**
		Medium colour
Ceilings	Plasterboard	**Insulation: See Table 2 & 3**
Floors	Concrete slab on ground	**Insulation: See Table 2 & 3**
		Wet areas only: Tiles
		Bedrooms: Carpet
		Living/Dining/Kitchen: Timber
Exhaust fans (kitchens, bathrooms, laundry)		**All assumed to be sealed**

2.2 BERS PRO RESULTS (THERMAL COMFORT)

The simulated heating and cooling loads per dwelling are summarized in Table 2 & Table 3 below. Where the dwellings have failed to meet the thermal load targets additional thermal enhancements / treatments are provided. This is typically in the form of bulk insulation. These additional thermal treatments are required to pass the BASIX Thermal performance requirements.

Table 2: BERS Pro Thermal Loads – SITE 1

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
1.B1.01	R1.0 Bulk Floor Insulation adjacent to carpark only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed ares only	23.5	11.5	7.3	Pass
1.B1.02	R1.0 Bulk Floor Insulation adjacent to carpark only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed ares only	25.9	10.9	7.2	Pass
1.B1.03	R1.0 Bulk Floor Insulation adjacent to carpark only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E	22.2	9.8	7.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed ares only				
1.00.01	R1.0 Bulk Floor Insulation adjacent to carpark only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	36.2	12.9	6.2	Pass
1.00.02	R1.0 Bulk Floor Insulation adjacent to carpark only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed ares only	31.9	7.0	7.0	Pass
1.00.03	R1.0 Bulk Floor Insulation adjacent to carpark only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed ares only	33.8	8.8	6.8	Pass
1.00.04	R1.5 Bulk Floor Insulation adjacent to elevated areas only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	4.1	15.6	8.5	Pass
1.00.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	8.5	13.2	8.4	Pass
1.00.06	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system	19.2	12.6	7.5	Pass

Unit No.	Additional Treatments Required	Heating Load ($MJ/m^2.yr$)	Cooling Load ($MJ/m^2.yr$)	Stars	Pass/Fail
	properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.00.07	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	8.6	18.5	7.9	Pass
1.00.08	R1.5 Bulk Floor Insulation adjacent to elevated areas & R1.0 Floor Insulation to services only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	32.0	9.9	6.8	Pass
1.00.09	R1.0 Bulk Floor Insulation adjacent to carpark only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	34.7	11.3	6.4	Pass
1.00.10	R1.0 Bulk Floor Insulation adjacent to carpark only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	38.8	8.8	6.3	Pass
1.01.01	R1.5 Bulk Floor Insulation adjacent to elevated areas only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	25.9	14.1	6.9	Pass
1.01.02	R1.5 Bulk Floor Insulation adjacent to elevated areas only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC	25.5	9.2	7.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.01.03	R1.0 Bulk Floor Insulation adjacent to services & elevated areas only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	34.1	7.4	6.8	Pass
1.01.04	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	10.0	13.7	8.2	Pass
1.01.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.7	10.5	8.3	Pass
1.01.06	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.2	9.8	8.4	Pass
1.01.07	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	3.3	20.1	8.3	Pass
1.01.08	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	8.8	12.9	8.4	Pass
1.01.09	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal	8.5	12.3	8.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.01.10	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	8.8	17.7	7.9	Pass
1.01.11	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.8	11.0	8.2	Pass
1.01.12	R1.5 Bulk Floor Insulation adjacent to elevated areas only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	19.4	9.7	7.8	Pass
1.01.13	R1.5 Bulk Floor Insulation adjacent to elevated areas only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.4	11.0	8.1	Pass
1.01.14	R1.0 Bulk Floor Insulation adjacent to services only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.8	11.6	8.2	Pass
1.02.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar	18.1	12.9	7.6	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.02.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.6	7.3	7.8	Pass
1.02.03	R1.0 Bulk Floor Insulation adjacent to services only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	35.9	8.4	6.6	Pass
1.02.04	R1.0 Bulk Floor Insulation adjacent to services only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	34.5	13.7	6.3	Pass
1.02.05	R1.0 Bulk Floor Insulation adjacent to services only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	40.7	11.2	5.9	Pass
1.02.06	R1.0 Bulk Floor Insulation adjacent to services only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	33.4	10.8	6.6	Pass
1.02.07	R1.0 Bulk Floor Insulation adjacent to services only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.1	6.6	8.7	Pass
1.02.08	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal	13.7	10.9	8.2	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.02.09	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.5	9.3	8.2	Pass
1.02.10	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	13.0	8.8	8.4	Pass
1.02.11	R1.5 Bulk Floor Insulation adjacent to elevated areas only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	30.9	10.0	6.9	Pass
1.02.12	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	3.4	9.6	9.1	Pass
1.02.13	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	4.4	14.8	8.6	Pass
1.02.14	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	10.8	10.1	8.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
1.02.15	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	10.5	10.0	8.4	Pass
1.02.16	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	10.5	13.4	8.2	Pass
1.02.17	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.8	9.0	8.2	Pass
1.02.18	R1.5 Bulk Floor Insulation adjacent to elevated areas only, R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	40.6	5.6	6.4	Pass
1.02.19	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.4	7.8	7.8	Pass
1.02.20	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.4	8.7	8.3	Pass
1.03.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC	18.6	12.2	7.7	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	0.18 for all entry doors & awning windows				
1.03.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.8	7.2	7.8	Pass
1.03.03	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	13.3	9.3	8.3	Pass
1.03.04	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.5	16.1	7.8	Pass
1.03.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.9	12.6	7.8	Pass
1.03.06	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.8	12.2	7.9	Pass
1.03.07	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	5.0	6.8	9.3	Pass
1.03.08	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	8.8	12.1	8.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
1.03.09	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.5	9.0	8.3	Pass
1.03.10	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.7	9.0	8.4	Pass
1.03.11	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.8	11.8	8.2	Pass
1.03.12	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	3.7	9.4	9.1	Pass
1.03.13	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	4.6	14.3	8.6	Pass
1.03.14	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.2	9.6	8.4	Pass
1.03.15	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	10.9	9.4	8.4	Pass
1.03.16	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal	10.9	12.6	8.3	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.03.17	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.2	8.6	8.2	Pass
1.03.18	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.8	8.5	7.7	Pass
1.03.19	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.7	7.5	7.8	Pass
1.03.20	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.6	8.6	8.3	Pass
1.04.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.8	12.1	7.6	Pass
1.04.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.9	7.2	7.8	Pass
1.04.03	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E	13.3	9.3	8.3	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.04.04	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.5	16.0	7.8	Pass
1.04.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.0	12.7	7.7	Pass
1.04.06	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.9	12.2	7.9	Pass
1.04.07	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	5.2	6.4	9.3	Pass
1.04.08	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	8.5	14.0	8.3	Pass
1.04.09	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.0	9.2	8.3	Pass
1.04.10	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system	11.9	8.7	8.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.04.11	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.8	11.9	8.2	Pass
1.04.12	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	3.9	9.2	9.1	Pass
1.04.13	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	4.8	14.3	8.6	Pass
1.04.14	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.4	9.5	8.4	Pass
1.04.15	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.1	9.3	8.4	Pass
1.04.16	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.1	12.6	8.2	Pass
1.04.17	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding	15.4	8.7	8.2	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.04.18	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.9	8.2	7.7	Pass
1.04.19	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.7	7.4	7.8	Pass
1.04.20	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.7	8.6	8.3	Pass
1.05.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.9	12.2	7.6	Pass
1.05.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.9	7.3	7.8	Pass
1.05.03	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	13.3	9.8	8.3	Pass
1.05.04	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar	12.6	16.1	7.8	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.05.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.9	12.6	7.8	Pass
1.05.06	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.0	12.7	7.8	Pass
1.05.07	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	5.4	6.4	9.3	Pass
1.05.08	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	7.9	15.6	8.3	Pass
1.05.09	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.7	9.5	8.4	Pass
1.05.10	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.0	8.7	8.5	Pass
1.05.11	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total	12.8	11.8	8.2	Pass

Unit No.	Additional Treatments Required	Heating Load (MJ/m².yr)	Cooling Load (MJ/m².yr)	Stars	Pass/Fail
	window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.05.12	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	4.1	8.8	9.2	Pass
1.05.13	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	8.1	15.2	8.3	Pass
1.05.14	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	19.3	9.2	7.8	Pass
1.05.15	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	18.9	9.6	7.8	Pass
1.05.16	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	17.4	12.9	7.7	Pass
1.05.17	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	23.8	8.7	7.4	Pass
1.05.18	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E	22.0	8.3	7.7	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.05.19	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.6	7.4	7.8	Pass
1.05.20	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.8	8.6	8.3	Pass
1.06.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	19.1	12.2	7.6	Pass
1.06.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.9	7.3	7.8	Pass
1.06.03	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.5	8.0	8.1	Pass
1.06.04	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	20.5	10.0	7.7	Pass
1.06.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system	16.0	12.7	7.8	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.06.06	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	5.6	6.5	9.2	Pass
1.06.07	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	7.2	16.8	8.2	Pass
1.06.08	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.2	9.3	8.4	Pass
1.06.09	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.3	8.8	8.4	Pass
1.06.10	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.7	12.0	8.2	Pass
1.06.11	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	4.2	8.8	9.1	Pass
1.06.12	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding	6.0	14.8	8.4	Pass

Unit No.	Additional Treatments Required	Heating Load ($MJ/m^2.yr$)	Cooling Load ($MJ/m^2.yr$)	Stars	Pass/Fail
	doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.06.13	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	11.3	9.8	8.4	Pass
1.06.14	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	10.9	10.1	8.4	Pass
1.06.15	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.3	11.9	8.3	Pass
1.06.16	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	22.0	8.0	7.7	Pass
1.06.17	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	22.0	7.2	7.8	Pass
1.06.18	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.9	8.6	8.3	Pass
1.07.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system	19.2	12.2	7.6	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.07.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.5	7.3	7.8	Pass
1.07.03	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.3	8.0	8.1	Pass
1.07.04	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	20.3	10.7	7.6	Pass
1.07.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.9	12.7	7.8	Pass
1.07.06	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	5.6	6.5	9.2	Pass
1.07.07	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	6.4	17.9	8.2	Pass
1.07.08	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding	8.9	9.7	8.7	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
1.07.09	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	9.8	8.7	8.7	Pass
1.07.10	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation	28.0	14.1	6.8	Pass
1.07.11	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation	16.9	9.5	7.9	Pass
1.07.12	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R4.0 Bulk Ceiling Insulation	14.1	24.3	7.1	Pass
1.07.13	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R4.0 Bulk Ceiling Insulation	19.6	13.7	7.4	Pass
1.07.14	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R4.0 Bulk Ceiling Insulation	18.8	13.6	7.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
1.07.15	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R4.0 Bulk Ceiling Insulation	22.6	23.1	6.4	Pass
1.07.16	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation	34.0	8.5	6.8	Pass
1.07.17	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation	38.2	7.9	6.4	Pass
1.07.18	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation	30.5	9.1	6.9	Pass
1.08.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.3	11.5	7.9	Pass
1.08.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.0	7.6	7.8	Pass
1.08.03	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar	23.3	9.6	7.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only				
1.08.04	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	29.1	11.9	6.9	Pass
1.08.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.7	13.1	7.8	Pass
1.08.06	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	5.7	6.4	9.2	Pass
1.08.07	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	5.4	18.5	8.2	Pass
1.08.08	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	7.6	9.8	8.8	Pass
1.08.09	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	8.6	8.8	8.8	Pass
1.09.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding	25.5	13.7	6.9	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation				
1.09.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation	37.7	7.7	6.4	Pass
1.09.03	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	27.6	14.1	6.8	Pass
1.09.04	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.6	12.8	7.9	Pass
1.09.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation	14.5	18.0	7.4	Pass
1.09.06	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation	5.8	6.5	9.2	Pass
1.09.07	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk	5.4	18.6	8.2	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Ceiling Insulation				
1.09.08	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	6.5	8.4	8.9	Pass
1.10.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	37.4	14.6	5.9	Pass
1.10.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	24.0	18.2	6.8	Pass
1.10.03	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	10.2	6.4	8.8	Pass
1.10.04	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R2.5 Bulk Ceiling Insulation to exposed areas only	5.5	18.3	8.2	Pass
1.10.05	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	7.3	7.1	8.9	Pass
1.11.01	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding	29.7	14.5	6.6	Pass

Unit No.	Additional Treatments Required	Heating Load (MJ/m².yr)	Cooling Load (MJ/m².yr)	Stars	Pass/Fail
	doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R4.0 Bulk Ceiling Insulation				
1.11.02	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R4.0 Bulk Ceiling Insulation	16.9	10.8	7.9	Pass
1.11.03	R2.5 Bulk External Wall Insulation, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows, R4.0 Bulk Ceiling Insulation	12.2	10.1	8.4	Pass

Table 3: BERS Pro Thermal Loads – SITE 2

Unit No.	Additional Treatments Required	Heating Load (MJ/m².yr)	Cooling Load (MJ/m².yr)	Stars	Pass/Fail
2.B1.01	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.4	17.8	7.4	Pass
2.B1.02	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	22.6	13.6	7.2	Pass
2.B1.03	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.7	13.3	7.6	Pass
2.00.01	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall	8.9	15.4	8.2	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.00.02	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	5.4	15.7	8.4	Pass
2.00.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	4.0	16.7	8.4	Pass
2.00.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	4.0	16.7	8.4	Pass
2.00.05	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	7.8	15.7	8.3	Pass
2.00.06	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	24.8	10.7	7.3	Pass
2.01.01	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.9	9.7	7.9	Pass
2.01.02	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common	33.6	7.7	6.9	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.01.03	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	26.9	8.1	7.3	Pass
2.01.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.3	16.8	7.4	Pass
2.01.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	20.4	11.4	7.5	Pass
2.01.06	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.7	12.6	7.9	Pass
2.01.07	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.4	12.5	7.7	Pass
2.01.08	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.3	11.6	7.4	Pass
2.01.09	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common	39.1	9.4	6.3	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.01.10	R1.5 Bulk Floor Insulation, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	31.0	5.8	7.2	Pass
2.02.01	R1.5 Bulk Floor Insulation to elevated areas only, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	32.7	12.9	6.4	Pass
2.02.02	R1.5 Bulk Floor Insulation to elevated areas only, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	30.8	8.3	6.9	Pass
2.02.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	9.5	8.4	8.7	Pass
2.02.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.6	7.5	8.4	Pass
2.02.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.4	12.7	7.6	Pass
2.02.06	R2.5 Bulk External Wall Insulation including walls	22.7	9.4	7.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.02.07	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.0	9.8	7.9	Pass
2.02.08	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.0	9.8	7.9	Pass
2.02.09	R1.5 Bulk Floor Insulation to elevated areas only, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	32.8	8.4	6.9	Pass
2.02.10	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	23.7	7.5	7.6	Pass
2.02.11	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	22.6	9.6	7.4	Pass
2.02.12	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.8	5.6	8.4	Pass
2.02.13	R2.5 Bulk External Wall Insulation including walls	31.6	7.5	6.9	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.03.01	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	25.1	14.5	6.9	Pass
2.03.02	R1.5 Bulk Floor Insulation to elevated areas only, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	42.3	5.7	6.3	Pass
2.03.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.7	10.0	8.4	Pass
2.03.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	9.4	7.9	8.8	Pass
2.03.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.4	7.4	8.5	Pass
2.03.06	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.4	12.6	7.6	Pass
2.03.07	R2.5 Bulk External Wall Insulation including walls	23.1	9.2	7.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.03.08	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.4	9.5	7.9	Pass
2.03.09	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.4	9.5	7.9	Pass
2.03.10	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	33.2	8.5	6.8	Pass
2.03.11	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	23.8	7.4	7.6	Pass
2.03.12	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	22.8	9.4	7.4	Pass
2.03.13	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.8	5.7	8.4	Pass
2.03.14	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal	31.7	7.4	6.9	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.04.01	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	24.0	14.6	7.1	Pass
2.04.02	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	20.4	7.2	7.9	Pass
2.04.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.3	9.5	8.4	Pass
2.04.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	9.5	7.8	8.8	Pass
2.04.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.7	6.9	8.7	Pass
2.04.06	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.0	12.2	7.7	Pass
2.04.07	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E	23.5	9.2	7.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.04.08	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.7	9.3	7.9	Pass
2.04.09	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.7	9.3	7.9	Pass
2.04.10	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	33.6	8.3	6.8	Pass
2.04.11	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	24.1	7.5	7.6	Pass
2.04.12	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	23.1	9.2	7.4	Pass
2.04.13	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.8	5.7	8.4	Pass
2.04.14	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system	31.7	7.2	7.0	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.05.01	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	21.7	14.9	7.2	Pass
2.05.02	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	28.7	7.9	7.2	Pass
2.05.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	13.6	9.3	8.3	Pass
2.05.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.2	7.7	8.2	Pass
2.05.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.1	7.4	8.2	Pass
2.05.06	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	24.6	12.4	7.2	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
2.05.07	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	32.3	8.7	6.9	Pass
2.05.08	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	20.4	9.5	7.7	Pass
2.05.09	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	20.4	9.5	7.7	Pass
2.05.10	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	40.6	8.4	6.2	Pass
2.05.11	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	24.2	7.3	7.6	Pass
2.05.12	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	23.3	9.3	7.4	Pass
2.05.13	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding	15.7	5.5	8.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.05.14	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	31.5	7.0	7.1	Pass
2.06.01	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	19.3	15.8	7.3	Pass
2.06.02	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.4	7.5	8.2	Pass
2.06.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	18.0	5.6	8.2	Pass
2.06.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.0	6.0	8.4	Pass
2.06.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.3	6.3	8.3	Pass
2.06.06	R1.5 Bulk Floor Insulation to elevated areas only, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling	15.5	8.2	8.2	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.06.07	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	16.8	11.6	7.9	Pass
2.06.08	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	26.9	7.8	7.4	Pass
2.06.09	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	23.2	9.5	7.4	Pass
2.06.10	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	15.4	5.9	8.4	Pass
2.06.11	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	31.1	7.7	7.0	Pass
2.07.01	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.9	16.6	7.4	Pass
2.07.02	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal	10.0	7.2	8.8	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.07.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R4.0 Bulk Ceiling Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	20.8	8.3	7.8	Pass
2.07.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R4.0 Bulk Ceiling Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	24.1	6.1	7.7	Pass
2.07.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R4.0 Bulk Ceiling Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	22.1	14.7	7.2	Pass
2.07.06	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R4.0 Bulk Ceiling Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	25.5	8.0	7.4	Pass
2.07.07	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R4.0 Bulk Ceiling Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	31.4	12.4	6.7	Pass
2.07.08	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	27.2	7.9	7.3	Pass
2.07.09	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E	22.8	9.8	7.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.07.10	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.9	5.7	8.4	Pass
2.07.11	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	30.7	7.9	7.1	Pass
2.08.01	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.2	17.1	7.4	Pass
2.08.02	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	10.9	7.1	8.7	Pass
2.08.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	30.1	7.9	7.1	Pass
2.08.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	31.8	10.9	6.7	Pass
2.08.05	R2.5 Bulk External Wall Insulation including walls	16.4	6.1	8.3	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.08.06	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	30.2	8.2	7.1	Pass
2.09.01	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.8	13.9	7.6	Pass
2.09.02	R1.5 Bulk Floor Insulation to elevated areas only, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	7.8	9.8	8.7	Pass
2.09.03	R1.5 Bulk Floor Insulation to elevated areas only, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	25.5	7.0	7.4	Pass
2.09.04	R1.5 Bulk Floor Insulation to elevated areas only, R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	26.0	6.3	7.4	Pass
2.09.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding	26.2	8.2	7.4	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.09.06	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	14.4	5.3	8.6	Pass
2.09.07	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	23.2	6.3	7.8	Pass
2.10.01	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.4	14.6	7.4	Pass
2.10.02	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	6.9	10.0	8.8	Pass
2.10.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	11.9	7.3	8.6	Pass
2.10.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	17.1	13.0	7.7	Pass
2.10.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low	40.0	9.2	6.2	Pass

Unit No.	*Additional Treatments Required*	*Heating Load (MJ/m².yr)*	*Cooling Load (MJ/m².yr)*	*Stars*	*Pass/Fail*
	E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows				
2.10.06	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	22.7	6.6	7.7	Pass
2.11.01	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	27.4	16.0	6.7	Pass
2.11.02	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	7.6	10.1	8.7	Pass
2.11.03	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	12.0	7.5	8.6	Pass
2.11.04	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, R2.5 Bulk Insulation to exposed ceiling areas only, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	29.9	9.9	6.9	Pass
2.11.05	R2.5 Bulk External Wall Insulation including walls adjacent to common corridors, R1.0 Bulk Internal Wall Insulation, Double glazed High Solar Gain Low E glass with a fibreglass frame of total window system properties of U-value 2.0 & SHGC 0.23 for all sliding doors & fixed windows OR total window system properties of U-value 2.0 & SHGC 0.18 for all entry doors & awning windows	22.6	6.4	7.8	Pass
2.12.01	R2.5 Bulk External Wall Insulation including walls	14.6	7.1	8.4	Pass

3. CONCLUSION

The proposed development has been assessed to optimise its thermal performance (passive and fabric design) using the Nationwide House Energy Rating scheme (NatHERS).

With the commitment recommendations contained within this report the proposed development is able to meet BASIX thermal requirements.

For further details, please refer to the NatHERS Certificates No. 0003335990 & 0003333790.

APPENDIX A - ARCHITECTURAL DRAWINGS

The building sustainability performance assessment carried out in this report was based on the following architectural drawings supplied by Cardno received on 01 November 2018.

DA_DRAWING LIST			
Sheet Number	Sheet Name	Current Revision	Current Revision Date
DA-00-0000	DRAWING LIST	A	12.10.2018
DA-00-0100	DEVELOPMENT DATA SHEET	A	12.10.2018
DA-00-0200	SITE PLAN	A	12.10.2018
DA-00-0300	SITE ANALYSIS PLAN	A	12.10.2018
DA-00-0400	DEMOLITION PLAN	A	12.10.2018
DA-10-1700	GENERAL ARRANGEMENT PLANS - S1 LEVEL B3	A	12.10.2018
DA-10-1800	GENERAL ARRANGEMENT PLANS - S1 LEVEL B2	A	12.10.2018
DA-10-1900	GENERAL ARRANGEMENT PLANS - S1 LEVEL B1	A	12.10.2018
DA-10-2000	GENERAL ARRANGEMENT PLANS - S1 LEVEL 00	A	12.10.2018
DA-10-2100	GENERAL ARRANGEMENT PLANS - S1 LEVEL 01	A	12.10.2018
DA-10-2200	GENERAL ARRANGEMENT PLANS - S1 LEVEL 02	A	12.10.2018
DA-10-2300	GENERAL ARRANGEMENT PLANS - S1 LEVEL 03-05	A	12.10.2018
DA-10-2400	GENERAL ARRANGEMENT PLANS - S1 LEVEL 06	A	12.10.2018
DA-10-2500	GENERAL ARRANGEMENT PLANS - S1 LEVEL 07	A	12.10.2018
DA-10-2600	GENERAL ARRANGEMENT PLANS - S1 LEVEL 08	A	12.10.2018
DA-10-2700	GENERAL ARRANGEMENT PLANS - S1 LEVEL 09	A	12.10.2018
DA-10-2800	GENERAL ARRANGEMENT PLANS - S1 LEVEL 10	A	12.10.2018
DA-10-2900	GENERAL ARRANGEMENT PLANS - S1 LEVEL 11	A	12.10.2018
DA-10-3000	GENERAL ARRANGEMENT PLANS - S1 LEVEL 12	A	12.10.2018
DA-10-3100	GENERAL ARRANGEMENT PLANS - S1 ROOF	A	12.10.2018
DA-10-4700	GENERAL ARRANGEMENT PLANS - S2 LEVEL B3	A	12.10.2018
DA-10-4800	GENERAL ARRANGEMENT PLANS - S2 LEVEL B2	A	12.10.2018
DA-10-4900	GENERAL ARRANGEMENT PLANS - S2 LEVEL B1	A	12.10.2018
DA-10-5000	GENERAL ARRANGEMENT PLANS - S2 LEVEL 00	A	12.10.2018
DA-10-5100	GENERAL ARRANGEMENT PLANS - S2 LEVEL 01	A	12.10.2018
DA-10-5200	GENERAL ARRANGEMENT PLANS - S2 LEVEL 02	A	12.10.2018
DA-10-5300	GENERAL ARRANGEMENT PLANS - S2 LEVEL 03-05	A	12.10.2018
DA-10-5400	GENERAL ARRANGEMENT PLANS - S2 LEVEL 06	A	12.10.2018
DA-10-5500	GENERAL ARRANGEMENT PLANS - S2 LEVEL 07	A	12.10.2018
DA-10-5600	GENERAL ARRANGEMENT PLANS - S2 LEVEL 08	A	12.10.2018
DA-10-5700	GENERAL ARRANGEMENT PLANS - S2 LEVEL 09	A	12.10.2018
DA-10-5800	GENERAL ARRANGEMENT PLANS - S2 LEVEL 10	A	12.10.2018
DA-10-5900	GENERAL ARRANGEMENT PLANS - S2 LEVEL 11	A	12.10.2018
DA-10-6000	GENERAL ARRANGEMENT PLANS - S2 LEVEL 12	A	12.10.2018
DA-10-6100	GENERAL ARRANGEMENT PLANS - S2 LEVEL 13	A	12.10.2018
DA-10-6200	GENERAL ARRANGEMENT PLANS - S2 LEVEL 14	A	12.10.2018
DA-10-6300	GENERAL ARRANGEMENT PLANS - S2 LEVEL 15	A	12.10.2018
DA-10-6400	GENERAL ARRANGEMENT PLANS - S2 ROOF	A	12.10.2018
DA-20-0000	ELEVATIONS-S1	A	12.10.2018
DA-20-0100	ELEVATIONS-S1	A	12.10.2018
DA-20-0200	ELEVATIONS-S1	A	12.10.2018
DA-20-0300	ELEVATIONS-S2	A	12.10.2018
DA-20-0400	ELEVATIONS-S2	A	12.10.2018
DA-20-0500	ELEVATIONS-S2	A	12.10.2018
DA-20-0600	ELEVATION-BENNELONG PARKWAY ROAD	A	12.10.2018
DA-30-0000	SECTIONS-S1	A	12.10.2018
DA-30-0100	SECTIONS-S2	A	12.10.2018

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Sheet Number	Sheet Name	Current Revision	Current Revision Date
DA-30-0200	SECTIONS-S2	A	12.10.2018
DA-31-0000	HEIGHT CONTROL ANALYSIS	A	12.10.2018
DA-40-0000	FACADE FINISH SCHEDULE-S1	A	12.10.2018
DA-40-0100	FACADE FINISH SCHEDULE-S2	A	12.10.2018
DA-40-0200	FACADE FINISH SCHEDULE-S2 CENTRAL COURTYARD	A	12.10.2018
DA-50-1000	ADAPTABLE UNITS-S1	A	12.10.2018
DA-50-1001	ADAPTABLE UNITS-S1	A	12.10.2018
DA-50-1100	SILVER LIVABLE UNITS-S1	A	12.10.2018
DA-50-1200	VISITABLE UNITS-S1	A	12.10.2018
DA-50-2000	ADAPTABLE UNITS-S2	A	12.10.2018
DA-50-2001	ADAPTABLE UNITS-S2	A	12.10.2018
DA-50-2100	SILVER LIVABLE UNITS-S2	A	12.10.2018
DA-50-2200	VISITABLE UNITS-S2	A	12.10.2018
DA-91-0000	GFA DIAGRAMS	A	12.10.2018
DA-91-0100	GFA DIAGRAMS	A	12.10.2018
DA-93-0000	SOLAR SUN EYE VIEWS	A	12.10.2018
DA-93-0100	SOLAR SUN EYE VIEWS	A	12.10.2018
DA-93-0200	SOLAR ACCESS COMPLIANCE DIAGRAM	A	12.10.2018
DA-93-0300	SOLAR ACCESS COMPLIANCE DIAGRAM	A	12.10.2018
DA-93-0400	SHADOW DIAGRAMS	A	29.10.2018
DA-93-0500	SHADOW DIAGRAMS	A	29.10.2018
DA-93-0600	SHADOW DIAGRAMS	A	29.10.2018
DA-93-0700	SHADOW DIAGRAMS	A	29.10.2018
DA-93-0800	S2 CENTRAL COURTYARD_21 MARCH	A	12.10.2018
DA-93-0900	S2 CENTRAL COURTYARD_21 JUNE	A	12.10.2018
DA-93-1000	S2 CENTRAL COURTYARD_22 SEPTEMBER	A	12.10.2018
DA-93-1100	S2 CENTRAL COURTYARD_22 DECEMBER	A	12.10.2018
DA-94-0000	CROSS VENTILATION COMPLIANCE DIAGRAM	A	12.10.2018
DA-97-0100	PERSPECTIVE 1	A	12.10.2018
DA-97-0200	PERSPECTIVE 2	A	12.10.2018
DA-97-0300	PERSPECTIVE 3	A	12.10.2018
DA-97-0400	PERSPECTIVE 4	A	12.10.2018

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Computer performance assessment provides an estimate of building performance. This estimate is based on a necessarily simplified and idealised version of the building that does not and cannot fully represent all the intricacies of the building once built. As a result, simulation results only represent an interpretation of the potential performance of the building. No guarantee or warranty of building performance in practice can be based on simulation results alone. Cardno and its employees and agents shall not be liable for any loss arising because of, any person using or relying on the Report and whether caused by reason or error, negligent act or omission in the report. This preliminary assessment has been prepared based on the previous BASIX input data, preliminary architectural and building services design with the view to conduct a detailed assessment once the design is further developed.

Performance of the completed building may be significantly affected by the quality of construction; the quality of commissioning, ongoing management of the building, and the way the building is operated, monitored and maintained. Building fabric inputs require verifiable manufacturer data to confirm thermal properties.

This report is intended as a guide to assist with the application of BASIX. It should be read in conjunction with the BASIX and the NCC 2016; specific applications may vary during the design development of the project.