

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

Multi Dwelling

Certificate number: 649694M 06

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

This proposal has been the subject of an Alternative Assessment by the Department. The schedule below contains additional commitments resulting from this assessment, shown at the end of the Certificate.

This certificate is a revision of certificate number 649694M_03 lodged with the consent authority or certifier on 21 September 2016 with application SSD6965.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000

Secretary

BASIX

Date of issue: Thursday, 02 July 2020

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary									
Project name	Barangaroo 1B (R4B) - Certification_06								
Street address	2 Watermans Quay Quay Barangaroo 2000								
Local Government Area	Sydney City Council								
Plan type and plan number	deposited 1204948								
Lot no.	200								
Section no.	-								
No. of residential flat buildings	1								
No. of units in residential flat buildings	290								
No. of multi-dwelling houses	0								
No. of single dwelling houses	0								
Project score									
Water	✓ 48 Target 40								
Thermal Comfort	✓ Pass Target Pass								
Energy	✓ 25 Target 20								

Certificate Prepared by

Name / Company Name: Lendlease Technical Services (Aust) Pty Ltd

ABN (if applicable): 51632932391

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Description of project

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Project address							
Project name	Barangaroo 1B (R4B) - Certification_06						
Street address	2 Watermans Quay Quay Barangaroo 2000						
Local Government Area	Sydney City Council						
Plan type and plan number	deposited 1204948						
Lot no.	200						
Section no.	-						
Project type							
No. of residential flat buildings	1						
No. of units in residential flat buildings	290						
No. of multi-dwelling houses	0						
No. of single dwelling houses	0						
Site details							
Site area (m²)	2216						
Roof area (m²)	885.63						
Non-residential floor area (m²)	420.8						
Residential car spaces	318						
Non-residential car spaces	2						

Common area landscape								
Common area lawn (m²)	42.5							
Common area garden (m²)	42.5							
Area of indigenous or low water use species (m²)	0.0							
Assessor details								
Assessor number	100282							
Certificate number	1008056242							
Climate zone	17							
Project score								
Water	✓ 48	Target 40						
Thermal Comfort	✓ Pass	Target Pass						
Energy	✓ 25	Target 20						

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Description of project

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

Residential flat buildings - R4B, 290 dwellings, 59 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)
01.A	2	104.4	0.0	0.0	0.0
01.E	1	66.5	0.0	0.0	0.0
02.C	1	60.7	0.0	0.0	0.0
03.A	2	104.4	0.0	0.0	0.0
03.E	1	66.5	0.0	0.0	0.0
04.C	1	60.7	0.0	0.0	0.0
05.A	2	104.4	0.0	0.0	0.0
05.E	1	66.5	0.0	0.0	0.0
06.C	1	60.7	0.0	0.0	0.0
07.A	2	104.4	0.0	0.0	0.0
07.E	1	66.5	0.0	0.0	0.0
08.C	1	60.7	0.0	0.0	0.0
09.A	2	104.4	0.0	0.0	0.0
09.E	1	66.5	0.0	0.0	0.0
10.C	1	60.7	0.0	0.0	0.0
11.A	2	104.4	0.0	0.0	0.0
11.E	1	66.5	0.0	0.0	0.0
12.C	1	60.7	0.0	0.0	0.0

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Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
01.B	1	60.7	0.0	0.0	0.0
01.F	2	94.7	0.0	0.0	0.0
02.D	3	150.7	0.0	0.0	0.0
03.B	1	60.7	0.0	0.0	0.0
03.F	2	94.7	0.0	0.0	0.0
04.D	3	150.7	0.0	0.0	0.0
05.B	1	60.7	0.0	0.0	0.0
05.F	2	94.7	0.0	0.0	0.0
06.D	3	150.7	0.0	0.0	0.0
07.B	1	60.7	0.0	0.0	0.0
07.F	2	94.7	0.0	0.0	0.0
08.D	3	150.7	0.0	0.0	0.0
09.B	1	60.7	0.0	0.0	0.0
09.F	2	94.7	0.0	0.0	0.0
10.D	3	150.7	0.0	0.0	0.0
11.B	1	60.7	0.0	0.0	0.0
11.F	2	94.7	0.0	0.0	0.0
12.D	3	150.7	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
01.C	1	60.7	0.0	0.0	0.0
02.A	2	104.4	0.0	0.0	0.0
02.E	1	66.5	0.0	0.0	0.0
03.C	1	60.7	0.0	0.0	0.0
04.A	2	104.4	0.0	0.0	0.0
04.E	1	66.5	0.0	0.0	0.0
05.C	1	60.7	0.0	0.0	0.0
06.A	2	104.4	0.0	0.0	0.0
06.E	1	66.5	0.0	0.0	0.0
07.C	1	60.7	0.0	0.0	0.0
08.A	2	104.4	0.0	0.0	0.0
08.E	1	66.5	0.0	0.0	0.0
09.C	1	60.7	0.0	0.0	0.0
10.A	2	104.4	0.0	0.0	0.0
10.E	1	66.5	0.0	0.0	0.0
11.C	1	60.7	0.0	0.0	0.0
12.A	2	104.4	0.0	0.0	0.0
12.E	1	66.5	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
01.D	3	150.7	0.0	0.0	0.0
02.B	1	60.7	0.0	0.0	0.0
02.F	2	94.7	0.0	0.0	0.0
03.D	3	150.7	0.0	0.0	0.0
04.B	1	60.7	0.0	0.0	0.0
04.F	2	94.7	0.0	0.0	0.0
05.D	3	150.7	0.0	0.0	0.0
06.B	1	60.7	0.0	0.0	0.0
06.F	2	94.7	0.0	0.0	0.0
07.D	3	150.7	0.0	0.0	0.0
08.B	1	60.7	0.0	0.0	0.0
08.F	2	94.7	0.0	0.0	0.0
09.D	3	150.7	0.0	0.0	0.0
10.B	1	60.7	0.0	0.0	0.0
10.F	2	94.7	0.0	0.0	0.0
11.D	3	150.7	0.0	0.0	0.0
12.B	1	60.7	0.0	0.0	0.0
12.F	2	94.7	0.0	0.0	0.0

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Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
13.A	2	104.4	0.0	0.0	0.0	13.B	1	60.7	0.0	0.0	0.0	13.C	1	60.7	0.0	0.0	0.0	13.D	3	150.7	0.0	0.0	0.0
13.E	1	66.5	0.0	0.0	0.0	13.F	2	94.7	0.0	0.0	0.0	14.A	2	104.4	0.0	0.0	0.0	14.B	1	60.7	0.0	0.0	0.0
14.C	1	60.7	0.0	0.0	0.0	14.D	3	150.7	0.0	0.0	0.0	14.E	1	66.5	0.0	0.0	0.0	14.F	2	94.7	0.0	0.0	0.0
15.A	2	104.4	0.0	0.0	0.0	15.B	1	60.7	0.0	0.0	0.0	15.C	1	60.7	0.0	0.0	0.0	15.D	3	150.7	0.0	0.0	0.0
15.E	1	66.5	0.0	0.0	0.0	15.F	2	94.7	0.0	0.0	0.0	16.A	2	104.4	0.0	0.0	0.0	16.B	1	60.7	0.0	0.0	0.0
16.C	1	60.7	0.0	0.0	0.0	16.D	3	150.7	0.0	0.0	0.0	16.E	1	66.5	0.0	0.0	0.0	16.F	2	94.7	0.0	0.0	0.0
17.A	2	104.4	0.0	0.0	0.0	17.B	1	60.7	0.0	0.0	0.0	17.C	1	60.7	0.0	0.0	0.0	17.D	3	150.7	0.0	0.0	0.0
17.E	1	66.5	0.0	0.0	0.0	17.F	2	94.7	0.0	0.0	0.0	18.A	2	104.4	0.0	0.0	0.0	18.B	1	60.7	0.0	0.0	0.0
18.C	1	60.7	0.0	0.0	0.0	18.D	3	150.7	0.0	0.0	0.0	18.E	1	66.5	0.0	0.0	0.0	18.F	2	94.7	0.0	0.0	0.0
19.A	2	104.4	0.0	0.0	0.0	19.B	1	60.7	0.0	0.0	0.0	19.C	1	60.7	0.0	0.0	0.0	19.D	3	150.7	0.0	0.0	0.0
19.E	1	66.5	0.0	0.0	0.0	19.F	2	94.7	0.0	0.0	0.0	21.A	2	104.4	0.0	0.0	0.0	21.B	1	60.7	0.0	0.0	0.0
21.C	1	60.7	0.0	0.0	0.0	21.D	3	150.7	0.0	0.0	0.0	21.E	1	66.5	0.0	0.0	0.0	21.F	2	94.7	0.0	0.0	0.0
22.A	2	104.4	0.0	0.0	0.0	22.B	1	60.7	0.0	0.0	0.0	22.C	1	60.7	0.0	0.0	0.0	22.D	3	150.7	0.0	0.0	0.0
22.E	1	66.5	0.0	0.0	0.0	22.F	2	94.7	0.0	0.0	0.0	23.A	2	104.4	0.0	0.0	0.0	23.B	1	60.7	0.0	0.0	0.0
23.C	1	60.7	0.0	0.0	0.0	23.D	3	150.7	0.0	0.0	0.0	23.E	1	66.5	0.0	0.0	0.0	23.F	2	94.7	0.0	0.0	0.0
24.A	2	104.4	0.0	0.0	0.0	24.B	1	60.7	0.0	0.0	0.0	24.C	1	60.7	0.0	0.0	0.0	24.D	3	150.7	0.0	0.0	0.0
24.E	1	66.5	0.0	0.0	0.0	24.F	2	94.7	0.0	0.0	0.0	25.A	2	104.4	0.0	0.0	0.0	25.B	1	60.7	0.0	0.0	0.0
25.C	1	60.7	0.0	0.0	0.0	25.D	3	150.7	0.0	0.0	0.0	25.E	1	66.5	0.0	0.0	0.0	25.F	2	94.7	0.0	0.0	0.0
26.A	2	104.4	0.0	0.0	0.0	26.B	1	60.7	0.0	0.0	0.0	26.C	1	60.7	0.0	0.0	0.0	26.D	3	150.7	0.0	0.0	0.0
26.E	1	66.5	0.0	0.0	0.0	26.F	2	94.7	0.0	0.0	0.0	27.A	2	104.4	0.0	0.0	0.0	27.B	1	60.7	0.0	0.0	0.0
27.C	1	60.7	0.0	0.0	0.0	27.D	3	150.7	0.0	0.0	0.0	27.E	1	66.5	0.0	0.0	0.0	27.F	2	94.7	0.0	0.0	0.0
28.A	2	104.4	0.0	0.0	0.0	28.B	1	60.7	0.0	0.0	0.0	28.C	1	60.7	0.0	0.0	0.0	28.D	3	150.7	0.0	0.0	0.0
28.E	1	66.5	0.0	0.0	0.0	28.F	2	94.7	0.0	0.0	0.0	29.A	2	104.4	0.0	0.0	0.0	29.B	1	60.7	0.0	0.0	0.0

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Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
29.C	1	60.7	0.0	0.0	0.0	29.D	3	150.7	0.0	0.0	0.0	29.E	1	66.5	0.0	0.0	0.0	29.F	2	94.7	0.0	0.0	0.0
30.A	2	104.4	0.0	0.0	0.0	30.B	1	60.7	0.0	0.0	0.0	30.C	1	60.7	0.0	0.0	0.0	30.D	3	150.7	0.0	0.0	0.0
30.E	1	66.5	0.0	0.0	0.0	30.F	2	94.7	0.0	0.0	0.0	31.A	2	104.4	0.0	0.0	0.0	31.B	1	60.7	0.0	0.0	0.0
31.C	1	60.7	0.0	0.0	0.0	31.D	3	150.7	0.0	0.0	0.0	31.E	1	66.5	0.0	0.0	0.0	31.F	2	94.7	0.0	0.0	0.0
32.A	2	104.4	0.0	0.0	0.0	32.B	1	60.7	0.0	0.0	0.0	32.C	1	60.7	0.0	0.0	0.0	32.D	3	150.7	0.0	0.0	0.0
32.E	1	66.5	0.0	0.0	0.0	32.F	2	94.7	0.0	0.0	0.0	33.A	2	104.4	0.0	0.0	0.0	33.B	2	101.9	0.0	0.0	0.0
33.C	3	182.5	0.0	0.0	0.0	33.D	1	66.5	0.0	0.0	0.0	33.E	2	94.7	0.0	0.0	0.0	34.A	2	104.4	0.0	0.0	0.0
34.B	2	101.9	0.0	0.0	0.0	34.C	3	182.5	0.0	0.0	0.0	34.D	1	66.5	0.0	0.0	0.0	34.E	2	94.7	0.0	0.0	0.0
35.A	2	104.4	0.0	0.0	0.0	35.B	2	101.9	0.0	0.0	0.0	35.C	3	182.5	0.0	0.0	0.0	35.D	1	66.5	0.0	0.0	0.0
35.E	2	94.7	0.0	0.0	0.0	36.A	2	104.4	0.0	0.0	0.0	36.B	2	101.9	0.0	0.0	0.0	36.C	3	182.5	0.0	0.0	0.0
36.D	1	66.5	0.0	0.0	0.0	36.E	2	94.7	0.0	0.0	0.0	37.A	2	104.4	0.0	0.0	0.0	37.B	2	101.9	0.0	0.0	0.0
37.C	3	182.5	0.0	0.0	0.0	37.D	1	66.5	0.0	0.0	0.0	37.E	2	94.7	0.0	0.0	0.0	38.A	2	104.4	0.0	0.0	0.0
38.B	2	101.9	0.0	0.0	0.0	38.C	3	182.5	0.0	0.0	0.0	38.D	1	66.5	0.0	0.0	0.0	38.E	2	94.7	0.0	0.0	0.0
39.A	2	104.4	0.0	0.0	0.0	39.B	2	101.9	0.0	0.0	0.0	39.C	3	182.5	0.0	0.0	0.0	39.D	1	66.5	0.0	0.0	0.0
39.E	2	94.7	0.0	0.0	0.0	40.A	2	104.4	0.0	0.0	0.0	40.B	2	101.9	0.0	0.0	0.0	40.C	3	182.5	0.0	0.0	0.0
40.D	1	66.5	0.0	0.0	0.0	40.E	2	94.7	0.0	0.0	0.0	41.A	2	104.4	0.0	0.0	0.0	41.B	2	101.9	0.0	0.0	0.0
41.C	3	182.5	0.0	0.0	0.0	41.D	1	66.5	0.0	0.0	0.0	41.E	2	94.7	0.0	0.0	0.0	42.A	2	104.4	0.0	0.0	0.0
42.B	2	101.9	0.0	0.0	0.0	42.C	3	182.5	0.0	0.0	0.0	42.D	1	66.5	0.0	0.0	0.0	42.E	2	94.7	0.0	0.0	0.0
43.A	2	104.4	0.0	0.0	0.0	43.B	2	101.9	0.0	0.0	0.0	43.C	3	182.5	0.0	0.0	0.0	43.D	1	66.5	0.0	0.0	0.0
43.E	2	94.7	0.0	0.0	0.0	44.A	2	104.4	0.0	0.0	0.0	44.B	2	101.9	0.0	0.0	0.0	44.C	3	182.5	0.0	0.0	0.0
44.D	1	66.5	0.0	0.0	0.0	44.E	2	94.7	0.0	0.0	0.0	45.A	2	104.4	0.0	0.0	0.0	45.B	2	101.9	0.0	0.0	0.0
45.C	3	182.5	0.0	0.0	0.0	45.D	1	66.5	0.0	0.0	0.0	45.E	2	94.7	0.0	0.0	0.0	46.A	2	104.4	0.0	0.0	0.0
46.B	2	101.9	0.0	0.0	0.0	46.C	3	182.5	0.0	0.0	0.0	46.D	1	66.5	0.0	0.0	0.0	46.E	2	94.7	0.0	0.0	0.0

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Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
48.A	3	179.4	0.0	0.0	0.0
49.A	3	179.4	0.0	0.0	0.0
50.A	3	179.4	0.0	0.0	0.0
51.A	3	179.4	0.0	0.0	0.0
52.A	3	179.4	0.0	0.0	0.0
53.A	3	179.4	0.0	0.0	0.0
54.A	3	179.4	0.0	0.0	0.0
55.A	3	179.4	0.0	0.0	0.0
56.A	4 or mo be	503.7 ore drooms	0.0	0.0	0.0

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Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
48.B	3	180.9	0.0	0.0	0.0
49.B	3	180.9	0.0	0.0	0.0
50.B	3	180.9	0.0	0.0	0.0
51.B	3	180.9	0.0	0.0	0.0
52.B	3	180.9	0.0	0.0	0.0
53.B	3	180.9	0.0	0.0	0.0
54.B	3	180.9	0.0	0.0	0.0
55.B	3	180.9	0.0	0.0	0.0
56.B	or mo	499.1 ore drooms	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)
48.C	2	117.3	0.0	0.0	0.0
49.C	2	117.3	0.0	0.0	0.0
50.C	2	117.3	0.0	0.0	0.0
51.C	2	117.3	0.0	0.0	0.0
52.C	2	117.3	0.0	0.0	0.0
53.C	2	117.3	0.0	0.0	0.0
54.C	2	117.3	0.0	0.0	0.0
55.C	2	117.3	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
48.D	2	107.9	0.0	0.0	0.0
49.D	2	107.9	0.0	0.0	0.0
50.D	2	107.9	0.0	0.0	0.0
51.D	2	107.9	0.0	0.0	0.0
52.D	2	107.9	0.0	0.0	0.0
53.D	2	107.9	0.0	0.0	0.0
54.D	2	107.9	0.0	0.0	0.0
55.D	2	107.9	0.0	0.0	0.0

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Description of project

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

Common areas of unit building - R4B

Common area	Floor area (m²)
Gym_AC_Motion	371.78
Lift car (No. 3)	-
Lift car (No. 6)	-
Community room_AC_Motion	183.93
Plant or service room_Exhaust_Switch	499.52
Other_AC_Motion	10.04
Other_No Mech_Switch	20.86
Hallway/lobby type_Supply_Motion	5161.57

Common area	Floor area (m²)
Lift car (No. 1)	-
Lift car (No. 4)	-
Lift motor room_AC_Switch	46.18
Community room_AC_Switch	56.54
Plant or service room_No Mech_Motion	317.19
Other_Exhaust_Motion	45.17
Ground floor lobby type_AC_Motion	146.55

Common area	Floor area (m²)
Lift car (No. 2)	-
Lift car (No. 5)	-
Switch room_AC_Motion	62.09
Community room_Exhaust_Motion	20.84
Plant or service room_No Mech_Switch	1793.98
Other_No Mech_Motion	1227.89
Hallway/lobby type_AC_Motion	435.53

Common areas of the development (non-building specific)

Common area	Floor area (m²)
Undercover Park Area_Basement_S+E	14261.12
Plant or service room_Basement_Exhaust	139.0
Other_Basement_No Mech	84.92

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Common area	Floor area (m²)
Garbage room_Basement_Exhaust	49.81
Plant or service room_Basement_Supply	256.5
Other_Basement_Supply	36.21

Common area	Floor area (m²)
Plant or service room_Basement_AC	119.21
Other_Basement_Exhaust	10.0
Hallway/lobby type_Basement_Supply	130.85

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Schedule of BASIX commitments

- 1. Commitments for Residential flat buildings R4B
 - (a) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Comfort
 - (b) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy
- 2. Commitments for multi-dwelling houses
- 3. Commitments for single dwelling houses
- 4. Commitments for common areas and central systems/facilities for the development (non-building specific)
 - (i) Water
 - (ii) Energy

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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 - R4B

(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.		•	V
(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.		•	V
(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.		✓	V
(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.	V	~	
(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.	V	✓	
(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.	~	~	~

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Fixtures					Appli	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
56.A	3 star (> 7.5 but <= 9 L/min)	4 star	6 star	6 star	no	4.5 star	5.5 star	42.0	no	outdoors	no	-	-	-
56.B	3 star (> 7.5 but <= 9 L/min)	4 star	6 star	6 star	no	4.5 star	5.5 star	36.0	no	outdoors	no	-	-	-

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			Fixtur	es		Appl		Indi	vidual pool		Ir	ndividual	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
48.A, 48.B, 48.C, 48.D, 49.A, 49.B, 50.C, 50.C, 51.A, 51.D, 52.A, 52.C, 53.A, 53.C, 53.B, 54.C, 55.D, 55.B, 55.C, 55.D,	3 star (> 7.5 but <= 9 L/min)	4 star	6 star	6 star	no	4.5 star	5.5 star				-	-		

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			Fixtur	es		Appli	ances		Indi	vidual pool		Individual spa		
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
33.B, 33.C,	3 star (> 7.5 but <= 9 L/min)	4 star	4 star	5 star	no	4 star	5 star		-					-

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			Fixtur	es		Appliances			Indi	vidual pool		In	dividual	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
41.A, 41.B, 41.C, 41.D, 42.A, 42.B, 42.C, 42.E, 43.A, 43.B, 43.C, 43.B, 44.A, 44.B, 44.D, 44.B, 45.A, 45.D, 45.E, 46.D, 46.E, 46.D, 46.E,														
All other dwellings	3 star (> 7.5 but <= 9 L/min)	4 star	5 star	5 star	no	-	5 star	-	-	-	-	-	-	-

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			Alternative water sou	rce				
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	on-site recycled water system (no. 1)	See central systems	See central systems	-	yes	-	-	-
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.		•	v
(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.		~	~
(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.			

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(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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 ven	tilation system	Kitchen venti	lation system	Laundry ventilation system		
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control	
All dwellings	central hot water system 1	motorised damper into central duct + VSD	manual switch on/off	motorised damper into central duct + VSD	manual switch on/off	motorised damper into central duct + VSD	manual switch on/off	

	Cod	oling	Hea	iting			Artificial	lighting			Natural lig	ghting
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
53.A	central cooling system 1 (zoned)	central cooling system 1 (zoned)	-	-	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
56.A, 56.B	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	4 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

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	Co	oling	Не	ating			Artificial	lighting			Natural lig	ghting
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 kitche
36.A, 37.A, 38.A, 39.A, 40.A, 41.A, 42.A, 43.A, 44.A, 45.A, 46.A	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	2	1 (dedicated)	yes	yes	yes	yes	0	yes
36.C, 37.C, 38.C, 39.C, 40.C, 41.C, 42.C, 43.C, 44.C, 45.C,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	3	1 (dedicated)	yes	yes	yes	yes	0	no
01.F, 02.F, 03.F, 04.F, 05.F, 06.F, 07.F, 08.E, 10.F, 11.F, 12.E, 13.F, 14.F, 15.F,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

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	Co	oling	Hea	ating			Artificial	lighting			Natural lig	ghting
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 kitche
01.A, 02.A, 03.A, 04.A, 05.A, 06.A, 07.A, 08.A, 10.A, 11.A, 12.A, 13.A, 14.A, 15.A, 16.A,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes
18.A, 19.A, 21.A, 22.A, 23.A, 24.A, 25.A, 26.A, 27.A, 28.A, 30.A, 31.A, 32.A, 33.A, 34.A, 35.A	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes

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	Cod	oling	Hea	ating			Artificial	lighting			Natural liç	ghting
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 kitcher
35.E, 36.B, 37.B, 37.E, 38.B, 39.B, 39.E, 40.B, 41.E, 42.B, 42.E, 43.B, 44.E, 45.B, 45.E, 46.B,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	2	1 (dedicated)	yes	yes	yes	yes	0	no

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	Со	oling	Не	ating			Artificial	lighting	_	_	Natural lig	ghting
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 kitche
08.F, 12.F, 17.F, 19.F, 22.F, 23.F, 24.F, 25.F, 31.F, 33.E, 33.E, 34.E, 50.C, 51.C, 52.C, 53.C, 54.C, 55.C, 55.C,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

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	Co	oling	Не	ating			Artificial	lighting			Natural lig	ghting
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 kitch
01.B, 01.C, 01.E, 02.B, 02.C, 03.B, 03.C, 04.E, 05.C, 05.E, 06.E, 07.C, 07.E, 09.B, 10.C, 11.B, 11.C, 11.B, 12.C, 13.B, 14.C,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

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	Co	oling	Hea	ating			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 kitchei	
14.E, 15.B, 15.C, 15.E, 16.B, 16.C, 16.E, 17.B,													

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	Со	oling	He	ating			Artificial	lighting			Natural lig	ghting
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 kitch
01.D, 02.D, 03.D, 04.D, 05.D, 06.D, 07.D, 10.D, 11.D, 13.D, 14.D, 15.D, 16.D, 17.D, 22.D, 22.D, 22.D, 23.D, 24.D, 25.D, 26.D, 27.D, 28.D,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

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	Co	oling	Hea	ating			Artificial	lighting			Natural liç	ghting
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 kitche
50.B, 51.A, 51.B, 52.A, 52.B, 53.B, 54.A, 54.B, 55.A, 55.B												
All other dwellings	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

	Individual po	ool	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
56.A, 56.B	gas	yes	-	-	gas cooktop & electric oven	3 star (new rating)	no	4.5 star	5 star	8 star	no	no

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	Individual p	oool	Individual	spa			Appliance	es & other effic	iency meas	ures		
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
48.A, 48.B, 49.B, 50.A, 50.B, 51.A, 51.B, 52.A, 52.B, 53.A, 53.B, 54.A, 54.B, 55.A,	-	-	-	-	gas cooktop & electric oven	3 star (new rating)	no	4.5 star	5 star	8 star	no	no
48.C, 48.D, 49.C, 49.D, 50.C, 50.D, 51.C, 51.D, 52.C, 52.D, 53.C, 53.D, 54.C, 54.D, 55.C, 55.D	-	-	-	-	gas cooktop & electric oven	2.5 star (new rating)	no	4.5 star	5 star	8 star	no	no

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	Individual	pool	Individual	spa	_		Appliance	es & other effic	iency meas	ures		
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
01.A, 01.F, 02.A, 02.F, 03.A, 03.F, 04.A, 05.F, 06.A, 07.A, 07.A, 08.A, 09.A, 10.A, 11.A, 11.A, 12.F, 13.A, 14.A, 15.A, 16.A, 17.A, 17.A, 18.A, 19.A, 19.A, 19.A,					gas cooktop & electric oven	3.5 star (new rating)	no	4.5 star		2 star	no	no

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	Individual p	ool	Individual s	ра			Appliance	es & other effic	iency meas	ures		
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 unsheltere clothes drying line
21.A, 21.F, 22.A, 22.F, 23.A, 23.F, 24.A, 24.F, 25.A, 25.F, 26.A, 27.F, 28.A, 29.F, 30.A, 30.F, 31.A, 31.F, 32.A,												

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	Individual _I	pool	Individual	spa			Appliance	es & other effic	iency meas	sures		
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
33.A, 33.B,C, 33.B,C, 33.B,C, 34.B,C, 34.B,C, 34.B,C, 34.B,C, 35.B,C,C, 36.B,C,C,C,C,C,C,C,C,C,C,C,C,C,C,C,C,C,C,C					gas cooktop & electric oven	3 star (new rating)	no	4.5 star	4 star	2 star	no	no

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	Individual	oool	Individual	spa			Appliance	es & other effic	iency meas	sures		
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 of unshelters clothes drying line
0.D,												
0.E,												
11.A,												
11.B,												
11.C,												
11.D, 11.E,												
+1.⊑, 42.A,												
12.A, 12.B,												
12.C,												
12.D,												
12.E,												
13.A,												
43.B,												
43.C,												
13.D,												
43.E, 44.A,												
14.B,												
14.C,												
14.D,												
14.E,												
15.A,												
45.B,												
45.C,												
45.D, 45.E,												
ю.⊏, 16.А,												
6.B,												
16.C,												
16.D,												
46.E												
All other	-	-	-	-	gas cooktop &	3 star (new	no	4.5 star	-	2 star	no	no
dwellings					electric oven	rating)						

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(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.		~	
(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:	•	~	V
(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.	V	~	V

		Thermal loads								
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)								
01.A	5.3	17.1								
01.B	4.5	11.4								
01.C	2.0	8.3								
01.D	1.6	15.5								
01.E	15.9	17.0								

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	Thermal loads								
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)							
01.F	15.8	16.1							
02.A	5.4	16.9							
02.B	4.6	11.3							
02.E	7.7	17.7							
02.F	6.8	17.1							
03.A	5.4	16.7							
03.B	4.7	11.4							
03.E	7.8	17.6							
03.F	7.0	17.0							
04.A	5.2	16.5							
04.B	4.9	11.2							
04.C	2.1	8.2							
04.D	1.7	15.6							
04.E	8.1	17.2							
04.F	7.2	16.8							
05.A	5.7	14.7							
05.B	5.7	10.2							
05.D	2.0	14.0							
05.E	9.3	14.3							
05.F	8.2	15.2							
06.A	5.3	14.2							
06.B	5.8	9.7							
06.D	1.9	13.7							
06.E	9.5	14.2							
06.F	8.4	15.5							
07.A	5.1	14.3							
07.B	5.8	9.6							

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		Thermal loads							
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)							
07.C	2.3	7.6							
07.D	1.9	13.5							
07.E	9.5	14.4							
07.F	8.4	15.3							
08.A	5.2	14.2							
08.B	5.9	9.8							
08.D	2.0	13.1							
08.E	9.7	14.1							
08.F	8.6	15.2							
09.A	5.0	14.2							
09.D	2.0	13.2							
09.E	9.8	14.4							
09.F	8.7	15.2							
10.A	4.7	14.2							
10.C	2.1	7.6							
10.E	9.9	14.3							
10.F	8.7	15.1							
11.A	4.4	14.2							
11.C	2.0	7.4							
11.E	10.1	13.9							
11.F	8.9	14.9							
12.B	6.0	9.6							
12.D	1.8	12.9							
12.E	10.2	13.7							
12.F	8.9	14.8							
13.E	10.3	13.7							
13.F	9.0	14.7							

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	Thermal loads								
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)							
14.E	10.3	13.3							
14.F	9.1	14.8							
15.B	5.7	9.3							
15.D	1.9	12.7							
15.E	10.4	13.1							
15.F	9.2	14.5							
16.B	5.4	9.2							
16.C	1.9	7.1							
16.E	10.5	13.0							
16.F	9.2	14.4							
17.B	5.0	9.3							
17.C	1.9	7.6							
17.E	10.6	12.9							
17.F	9.3	14.4							
18.A	4.1	15.4							
18.B	4.7	9.4							
18.C	1.9	7.7							
18.D	1.9	12.3							
18.E	10.7	12.8							
18.F	9.4	14.3							
19.A	23.4	15.5							
19.B	18.3	10.3							
19.C	26.1	9.0							
19.D	24.0	12.8							
19.E	27.4	14.2							
19.F	25.5	15.5							
21.A	14.2	15.4							

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	Thermal loads				
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)			
21.B	20.7	8.7			
21.C	16.1	7.7			
21.D	13.8	12.3			
21.E	19.8	11.7			
21.F	19.1	13.0			
22.A	3.6	18.7			
22.B	3.8	9.5			
22.C	1.9	8.1			
22.E	11.0	13.0			
22.F	9.6	14.0			
23.A	3.4	18.9			
23.B	3.8	9.1			
23.E	11.0	13.4			
23.F	9.7	13.8			
24.A	3.4	20.4			
24.B	3.8	9.2			
24.E	11.1	13.1			
24.F	9.7	13.6			
25.A	3.2	21.1			
25.E	11.1	12.8			
25.F	9.7	13.7			
26.C	1.8	8.7			
26.E	11.2	12.7			
26.F	9.8	13.4			
27.E	11.3	12.7			
27.F	9.9	13.3			
28.E	11.3	12.5			

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	Thermal loads				
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)			
30.A	3.1	21.6			
31.A	3.1	21.3			
31.D	1.9	12.2			
31.E	11.5	12.0			
32.A	3.2	21.2			
32.B	3.9	9.3			
32.C	1.9	8.6			
32.D	1.9	12.1			
32.E	11.6	12.2			
32.F	10.1	13.4			
33.A	3.2	20.6			
33.B	1.5	12.6			
33.C	0.8	13.5			
33.D	12.0	12.3			
33.E	10.5	13.9			
34.A	3.2	20.2			
34.C	0.8	13.3			
34.D	12.1	12.3			
35.A	3.2	20.1			
35.C	0.8	13.1			
35.D	12.1	12.2			
36.A	3.2	20.0			
37.C	0.9	13.1			
38.E	10.7	13.7			
40.A	3.2	19.4			
42.C	0.9	13.7			
42.D	12.4	12.0			

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	Thermal loads				
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)			
43.C	0.9	13.4			
43.D	12.4	11.8			
44.B	1.7	12.3			
45.B	1.7	12.2			
45.E	10.8	13.9			
46.A	19.6	21.1			
46.B	17.4	13.5			
46.C	11.5	14.4			
46.D	28.1	16.8			
46.E	27.8	15.3			
48.A	4.8	18.3			
48.B	4.3	14.8			
48.C	28.0	13.2			
48.D	27.5	11.5			
49.C	10.3	14.6			
49.D	9.8	12.0			
50.C	10.4	14.4			
50.D	9.9	11.7			
51.C	10.4	14.7			
51.D	9.9	11.8			
54.A	1.3	19.6			
54.B	1.0	15.3			
54.D	10.0	12.2			
55.B	1.1	15.3			
55.D	10.0	12.0			
56.A	8.5	15.2			
56.B	6.2	13.8			

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	Thermal loads				
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)			
02.C, 03.C	2.1	8.3			
02.D, 03.D	1.7	15.9			
05.C, 06.C	2.4	7.6			
08.C, 09.C	2.3	7.5			
10.D, 11.D	1.9	13.0			
12.C, 13.C	1.9	7.4			
13.B, 14.B	5.9	9.4			
14.C, 15.C	1.9	7.5			
16.D, 17.D	1.9	12.6			
23.D, 28.D	1.8	12.5			
26.A, 29.A	3.1	21.7			
27.A, 28.A	3.1	21.8			
27.C, 28.C	1.8	8.5			
28.F, 30.F	9.9	13.6			
29.D, 30.D	1.9	12.4			
29.E, 30.E	11.4	12.5			
29.F, 31.F	10.0	13.6			
34.B, 37.B	1.6	12.5			
34.E, 54.C	10.6	13.9			
36.D, 37.D	12.2	12.2			
38.D, 39.D	12.2	12.1			
39.A, 42.A	3.2	19.6			
40.C, 41.C	0.9	13.6			
40.D, 41.D	12.3	12.1			
42.E, 44.E	10.8	13.6			
44.A, 45.A	3.3	19.7			
44.D, 45.D	12.5	12.0			

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	Thermal loads				
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)			
49.A, 51.A	1.3	19.2			
50.A, 55.A	1.3	19.3			
51.B, 53.B	1.0	15.1			
52.A, 53.A	1.3	19.4			
52.D, 53.D	10.0	11.9			
09.B, 10.B, 11.B	5.9	9.7			
12.A, 14.A, 17.A	4.2	14.1			
13.A, 15.A, 16.A	4.2	14.2			
13.D, 14.D, 25.D	1.8	12.8			
23.C, 24.C, 29.C	1.9	8.4			
25.C, 30.C, 31.C	1.9	8.5			
26.B, 27.B, 28.B	3.7	9.3			
35.E, 36.E, 37.E	10.6	13.7			
49.B, 50.B, 52.B	1.0	15.2			
52.C, 53.C, 55.C	10.5	14.6			
22.D, 24.D, 26.D, 27.D	1.8	12.6			
25.B, 29.B, 30.B, 31.B	3.8	9.3			
37.A, 38.A, 41.A, 43.A	3.2	19.7			
39.E, 40.E, 41.E, 43.E	10.7	13.6			
36.C, 38.C, 39.C, 44.C, 45.C	0.9	13.3			
All other dwellings	1.6	12.4			

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(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.	V	~	
(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.		V	V

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	3 star (> 7.5 but <= 9 L/min)	4 star	4 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for)
Pool (No. 1)	Volume: 170.0 kLs	Location: R4B Pool shaded: no	-
Fire sprinkler system (No. 2)	-	-	-

(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.		~	~

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(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	V	~	~

	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
Gym_AC_Motion	air conditioning system	time clock or BMS controlled	compact fluorescent	time clocks	Yes
Lift car (No. 1)	-	-	light-emitting diode	connected to lift call button	Yes
Lift car (No. 2)	-	-	light-emitting diode	connected to lift call button	Yes
Lift car (No. 3)	-	-	light-emitting diode	connected to lift call button	Yes
Lift car (No. 4)	-	-	light-emitting diode	connected to lift call button	Yes
Lift car (No. 5)	-	-	light-emitting diode	connected to lift call button	Yes
Lift car (No. 6)	-	-	light-emitting diode	connected to lift call button	Yes
Lift motor room_AC_Switch	air conditioning system	thermostatically controlled	compact fluorescent	motion sensors	Yes
Switch room_AC_Motion	air conditioning system	thermostatically controlled	compact fluorescent	motion sensors	Yes
Community room_AC_Motion	air conditioning system	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Community room_AC_Switch	air conditioning system	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Community room_Exhaust_Motion	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Plant or service room_Exhaust_Switch	ventilation exhaust only	thermostatically controlled	compact fluorescent	motion sensors	Yes
Plant or service room_No Mech_Motion	no mechanical ventilation	-	compact fluorescent	motion sensors	Yes

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	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
Plant or service room_No Mech_Switch	no mechanical ventilation	-	compact fluorescent	motion sensors	Yes
Other_AC_Motion	air conditioning system	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Other_Exhaust_Motion	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Other_No Mech_Motion	no mechanical ventilation	-	light-emitting diode	motion sensors	Yes
Other_No Mech_Switch	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
Ground floor lobby type_AC_Motion	air conditioning system	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Hallway/lobby type_AC_Motion	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Hallway/lobby type_Supply_Motion	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes

Central energy systems	Туре	Specification
Central hot water system (No. 1)	gas-fired storage (manifolded)	Piping insulation (ringmain & supply risers): (b) Piping internal to building: R0.75 (~32 mm)
Central heating system (No. 1)	fan coil + heated water	Energy source: gas boiler
Lift (No. 1)	-	-
Lift (No. 2)	-	-
Lift (No. 3)	-	-
Lift (No. 4)	-	-
Lift (No. 5)	-	-
Lift (No. 6)	-	-
Pool (No. 1)	Heating source: gas	Pump controlled by timer: yes

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

(b) Common areas and central systems/facilities

BASIX

(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.		~	V
(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.	V	~	
(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.		~	V
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		V	V

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	3 star (> 7.5 but <= 9 L/min)	4 star	4 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for)
Central on-site recycled/alternative water supply (No. 1)	To supply at least 99999.0 litres of recycled water per day to the development (over and above the system's committed capacity, if any)	-	Irrigation of 0.0 square metres of common landscape area on the site car washing in 1 car washing bays on the site

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Central systems	Size	Configuration	Connection (to allow for)
Central on-site recycled/alternative water supply (No. 2)	To supply at least 99999.0 litres of recycled water per day to the development (over and above the system's committed capacity, if any)	-	Irrigation of 0.0 square metres of common landscape area on the site car washing in 0 car washing bays on the site
Fire sprinkler system (No. 1)	-	-	-

(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.	V	•	~

	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
Undercover Park Area_Basement_S+E	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	Yes
Garbage room_Basement_Exhaust	ventilation exhaust only	-	compact fluorescent	motion sensors	Yes
Plant or service room_Basement_AC	air conditioning system	thermostatically controlled	compact fluorescent	motion sensors	Yes
Plant or service room_Basement_Exhaust	ventilation exhaust only	thermostatically controlled	compact fluorescent	motion sensors	Yes
Plant or service room_Basement_Supply	ventilation supply only	thermostatically controlled	compact fluorescent	motion sensors	Yes

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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
Other_Basement_Exhaust	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Other_Basement_No Mech	no mechanical ventilation	-	light-emitting diode	motion sensors	Yes
Other_Basement_Supply	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Hallway/lobby type_Basement_Supply	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes

Central energy systems	Туре	Specification
Central cooling system (No. 1)	chilled water fan coil units	Energy source: electric driven compressor Heat rejection method: air cooled condenser
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 25.0 peak kW
Other	Building management system installed?: yes Active power factor correction installed?: yes	-

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Alternative Assessment

Water commitments	Show on	Show on CC/CDC	Certifier
	DA plans	plans & specs	check

Alternative Assessment

Thermal Comfort commitments	Show on	Show on CC/CDC	Certifier
	DA plans	plans & specs	check

Alternative Assessment

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Energy commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Lifts 1 to 6 System: Gearless traction with VVVF motor and regenerative braking Configuration: Lifts 1, 2 & 3 (Low Rise) service 31 residential floors: levels 1 to 32, plus 4 basement levels. Lifts 4, 5 & 6 (High Rise) service 24 residential floors: levels 33 to 57, plus 4 basement levels.	•	✓	~
The applicant must install a central cooling system with a coefficient of performance (COP) of at least 5.5.	~	~	V
Individual lifts The applicant must install the following individual lifts in Apartment Numbers 56.A and 56.B Type of Lift: Gearless traction with VVVF motor Type of Lighting: Light-emitting diode Lighting control: Connected to lift call button Number of floors serviced: 2 (Levels 56 & 57)	•	•	~

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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

BASIX

- 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).

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