

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

## Multi Dwelling

Certificate number: 649695M 04

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 certificate is a revision of certificate number 649695M\_02 lodged with the consent authority or certifier on 21 September 2016 with application SSD 15-6966.

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

Date of issue: Friday, 12 October 2018

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



Project summary							
Project name	Barangaroo 1B (R5) - Certification_04						
Street address	6 Watermans Quay Sydney 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	210						
No. of multi-dwelling houses	0						
No. of single dwelling houses	0						
Project score							
Water	✓ 46 Target 40						
Thermal Comfort	✓ Pass Target Pass						
Energy	✓ 24 Target 20						

#### **Certificate Prepared by**

Name / Company Name: Lend Lease Project Management & Construction

ABN (if applicable): 97000098162

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# **Description of project**

Project address						
Project name	Barangaroo 1B (R5) - Certification_04					
Street address	6 Watermans Quay Sydney 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	210					
No. of multi-dwelling houses	0					
No. of single dwelling houses	0					
Site details						
Site area (m²)	1824					
Roof area (m²)	900.75					
Non-residential floor area (m²)	916.3					
Residential car spaces	142					
Non-residential car spaces	1					

Common area landscape						
Common area lawn (m²)	92.0					
Common area garden (m²)	92.0					
Area of indigenous or low water use species (m²)	0.0					
Assessor details						
Assessor number	100282					
Certificate number 1008434043						
Climate zone	17					
Project score						
Water	<b>✓</b> 46	Target 40				
Thermal Comfort	✓ Pass	Target Pass				
Energy	<b>✓</b> 24	Target 20				

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## **Description of project**

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

## Residential flat buildings - R5, 210 dwellings, 29 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
0101	3	116.0	0.0	0.0	0.0
0105	2	73.6	0.0	0.0	0.0
0201	3	116.0	0.0	0.0	0.0
0205	2	70.2	0.0	0.0	0.0
0301	3	116.0	0.0	0.0	0.0
0305	2	70.2	0.0	0.0	0.0
0401	3	116.0	0.0	0.0	0.0
0405	2	70.2	0.0	0.0	0.0
0501	3	116.0	0.0	0.0	0.0
0505	2	70.2	0.0	0.0	0.0
0601	3	116.0	0.0	0.0	0.0
0605	2	70.2	0.0	0.0	0.0
0701	3	116.0	0.0	0.0	0.0
0705	2	70.2	0.0	0.0	0.0
0801	3	116.0	0.0	0.0	0.0
0805	2	70.2	0.0	0.0	0.0
0901	3	116.0	0.0	0.0	0.0
0905	2	70.2	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)
0102	1	59.5	0.0	0.0	0.0
0106	2	84.3	0.0	0.0	0.0
0202	1	59.5	0.0	0.0	0.0
0206	2	84.3	0.0	0.0	0.0
0302	1	59.5	0.0	0.0	0.0
0306	2	84.3	0.0	0.0	0.0
0402	1	59.5	0.0	0.0	0.0
0406	2	84.3	0.0	0.0	0.0
0502	1	59.5	0.0	0.0	0.0
0506	2	84.3	0.0	0.0	0.0
0602	1	59.5	0.0	0.0	0.0
0606	2	84.3	0.0	0.0	0.0
0702	1	59.5	0.0	0.0	0.0
0706	2	84.3	0.0	0.0	0.0
0802	1	59.5	0.0	0.0	0.0
0806	2	84.3	0.0	0.0	0.0
0902	1	59.5	0.0	0.0	0.0
0906	2	84.3	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)
0103	1	51.8	0.0	0.0	0.0
0107	1	50.8	0.0	0.0	0.0
0203	1	51.8	0.0	0.0	0.0
0207	1	50.8	0.0	0.0	0.0
0303	1	51.8	0.0	0.0	0.0
0307	1	50.8	0.0	0.0	0.0
0403	1	51.8	0.0	0.0	0.0
0407	1	50.8	0.0	0.0	0.0
0503	1	51.8	0.0	0.0	0.0
0507	1	50.8	0.0	0.0	0.0
0603	1	51.8	0.0	0.0	0.0
0607	1	50.8	0.0	0.0	0.0
0703	1	51.8	0.0	0.0	0.0
0707	1	50.8	0.0	0.0	0.0
0803	1	51.8	0.0	0.0	0.0
0807	1	50.8	0.0	0.0	0.0
0903	1	51.8	0.0	0.0	0.0
0907	1	50.8	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)	
0104	1	53.2	0.0	0.0	0.0	
0108	2	88.1	0.0	0.0	0.0	
0204	1	53.2	0.0	0.0	0.0	
0208	2	88.1	0.0	0.0	0.0	
0304	1	53.2	0.0	0.0	0.0	
0308	2	88.1	0.0	0.0	0.0	
0404	1	53.2	0.0	0.0	0.0	
0408	2	88.1	0.0	0.0	0.0	
0504	1	53.2	0.0	0.0	0.0	
0508	2	88.1	0.0	0.0	0.0	
0604	1	53.2	0.0	0.0	0.0	
0608	2	88.1	0.0	0.0	0.0	
0704	1	53.2	0.0	0.0	0.0	
0708	2	88.1	0.0	0.0	0.0	
0804	1	53.2	0.0	0.0	0.0	
8080	2	88.1	0.0	0.0	0.0	
0904	1	53.2	0.0	0.0	0.0	
0908	2	88.1	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 & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)		Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
1001	3	116.0	0.0	0.0	0.0	1002	1	59.5	0.0	0.0	0.0		1003	1	51.8	0.0	0.0	0.0	1004	1	53.2	0.0	0.0	0.0
1005	2	70.2	0.0	0.0	0.0	1006	2	84.3	0.0	0.0	0.0		1007	1	50.8	0.0	0.0	0.0	1008	2	88.1	0.0	0.0	0.0
1101	3	116.0	0.0	0.0	0.0	1102	1	59.5	0.0	0.0	0.0		1103	1	51.8	0.0	0.0	0.0	1104	1	53.2	0.0	0.0	0.0
1105	2	70.2	0.0	0.0	0.0	1106	2	84.3	0.0	0.0	0.0		1107	1	50.8	0.0	0.0	0.0	1108	2	88.1	0.0	0.0	0.0
1201	3	116.0	0.0	0.0	0.0	1202	1	59.5	0.0	0.0	0.0		1203	1	51.8	0.0	0.0	0.0	1204	1	53.2	0.0	0.0	0.0
1205	2	70.2	0.0	0.0	0.0	1206	2	84.3	0.0	0.0	0.0		1207	1	50.8	0.0	0.0	0.0	1208	2	88.1	0.0	0.0	0.0
1301	3	116.0	0.0	0.0	0.0	1302	1	59.5	0.0	0.0	0.0		1303	1	51.8	0.0	0.0	0.0	1304	1	53.2	0.0	0.0	0.0
1305	2	70.2	0.0	0.0	0.0	1306	2	84.3	0.0	0.0	0.0		1307	1	50.8	0.0	0.0	0.0	1308	2	88.1	0.0	0.0	0.0
1401	3	116.0	0.0	0.0	0.0	1402	1	59.5	0.0	0.0	0.0		1403	1	51.8	0.0	0.0	0.0	1404	1	53.2	0.0	0.0	0.0
1405	2	70.2	0.0	0.0	0.0	1406	2	84.3	0.0	0.0	0.0		1407	1	50.8	0.0	0.0	0.0	1408	2	88.1	0.0	0.0	0.0
1501	3	116.0	0.0	0.0	0.0	1502	1	59.5	0.0	0.0	0.0		1503	1	51.8	0.0	0.0	0.0	1504	1	53.1	0.0	0.0	0.0
1505	2	70.1	0.0	0.0	0.0	1506	2	84.3	0.0	0.0	0.0		1507	1	50.8	0.0	0.0	0.0	1508	2	88.1	0.0	0.0	0.0
1601	3	116.0	0.0	0.0	0.0	1602	1	59.5	0.0	0.0	0.0		1603	1	51.8	0.0	0.0	0.0	1604	1	53.1	0.0	0.0	0.0
1605	2	70.1	0.0	0.0	0.0	1606	2	84.3	0.0	0.0	0.0		1607	1	50.8	0.0	0.0	0.0	1608	2	88.1	0.0	0.0	0.0
1701	3	116.0	0.0	0.0	0.0	1702	1	61.1	0.0	0.0	0.0		1703	1	51.8	0.0	0.0	0.0	1704	1	53.2	0.0	0.0	0.0
1705	2	69.8	0.0	0.0	0.0	1706	2	84.3	0.0	0.0	0.0		1707	1	50.8	0.0	0.0	0.0	1708	2	88.1	0.0	0.0	0.0
1801	3	116.0	0.0	0.0	0.0	1802	2	61.1	0.0	0.0	0.0		1803	1	51.8	0.0	0.0	0.0	1804	1	60.0	0.0	0.0	0.0
1805	2	83.8	0.0	0.0	0.0	1806	2	84.3	0.0	0.0	0.0		1807	1	50.8	0.0	0.0	0.0	1808	2	88.1	0.0	0.0	0.0
1901	3	116.0	0.0	0.0	0.0	1902	2	61.1	0.0	0.0	0.0		1903	1	51.8	0.0	0.0	0.0	1904	1	60.0	0.0	0.0	0.0
1905	2	83.8	0.0	0.0	0.0	1906	2	84.3	0.0	0.0	0.0		1907	1	50.8	0.0	0.0	0.0	1908	2	88.1	0.0	0.0	0.0
2001	3	116.0	0.0	0.0	0.0	2002	2	61.1	0.0	0.0	0.0		2003	1	51.8	0.0	0.0	0.0	2004	1	60.0	0.0	0.0	0.0
2005	2	84.3	0.0	0.0	0.0	2006	2	84.3	0.0	0.0	0.0		2007	1	50.8	0.0	0.0	0.0	2008	2	88.1	0.0	0.0	0.0
2101	3	116.0	0.0	0.0	0.0	2102	2	61.1	0.0	0.0	0.0	l	2103	1	51.8	0.0	0.0	0.0	2104	1	60.0	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)
2105	2	84.3	0.0	0.0	0.0	2106	2	84.3	0.0	0.0	0.0
2201	3	116.0	0.0	0.0	0.0	2202	2	61.1	0.0	0.0	0.0
2205	2	84.3	0.0	0.0	0.0	2206	2	84.3	0.0	0.0	0.0
2301	3	116.0	0.0	0.0	0.0	2302	2	61.1	0.0	0.0	0.0
2305	2	84.3	0.0	0.0	0.0	2306	2	84.3	0.0	0.0	0.0
2401	3	116.0	0.0	0.0	0.0	2402	2	61.1	0.0	0.0	0.0
2405	2	84.3	0.0	0.0	0.0	2406	2	84.3	0.0	0.0	0.0
2501	3	116.0	0.0	0.0	0.0	2502	2	61.1	0.0	0.0	0.0
2505	2	84.3	0.0	0.0	0.0	2506	2	84.3	0.0	0.0	0.0
2601		96.0 ore drooms	0.0	0.0	0.0	2602	3	74.0	0.0	0.0	0.0
P201	3	116.0	0.0	0.0	0.0	P202	1	59.5	0.0	0.0	0.0
P205	3	127.7	0.0	0.0	0.0	P206	2	88.1	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)
2107	1	50.8	0.0	0.0	0.0
2203	1	51.8	0.0	0.0	0.0
2207	1	50.8	0.0	0.0	0.0
2303	1	51.8	0.0	0.0	0.0
2307	1	50.8	0.0	0.0	0.0
2403	1	51.8	0.0	0.0	0.0
2407	1	50.8	0.0	0.0	0.0
2503	1	51.8	0.0	0.0	0.0
2507	1	50.8	0.0	0.0	0.0
2603	4 or mo	84.5 ore drooms	0.0	0.0	0.0
P203	1	51.8	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)		
2108	2	88.1	0.0	0.0	0.0		
2204	1	60.0	0.0	0.0	0.0		
2208	2	88.1	0.0	0.0	0.0		
2304	1	60.0	0.0	0.0	0.0		
2308	2	88.1	0.0	0.0	0.0		
2404	1	60.0	0.0	0.0	0.0		
2408	2	88.1	0.0	0.0	0.0		
2504	1	60.0	0.0	0.0	0.0		
2508	2	88.1	0.0	0.0	0.0		
2604	3	79.0	0.0	0.0	0.0		
P204	1	60.7	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 - R5

Common area	Floor area (m²)
Lift car (No. 2)	-
Lift motor room (No. 1)	34.0
Security & control zones	11.4
Plant or service room - Podium	16.6
Fire stairs (podium & tower)	597.57
Hallway/lobby - Key Worker	389.38
Hallway/lobby type - On MKT	2547.35

Common area	Floor area (m²)
Lift car (No. 3)	-
Garbage room (No. 2) - Tower and Podium	182.45
Conditioned 24/7 (comm & D.A.S)	30.3
Plant or service room - Lvl 26	73.26
R5 Residential Facilities - Basement	759.0
Ground Lobby - Key Worker Entrance	25.0

Common area	Floor area (m²)
Lift car (No. 4)	-
Community room/function	22.38
Common Amenities	4.76
Plant or service room - Lvl 27	74.04
KWH and ON MKT Storage	781.0
Ground Lobby - On MKT Entrance	97.0

## Common areas of the development (non-building specific)

Common area	Floor area (m²)
Car park area (No. 1)	4261.0
Plant or service room (Grease Arrester)	51.3

Common area	Floor area (m²)
Switch room (No. 1)	6.2
Plant or service room - Basement	381.0

Common area	Floor area (m²)
Garbage room (No. 1) - Basement	27.3
Hallway/Lobby (Basement)	70.4

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## Schedule of BASIX commitments

- 1. Commitments for Residential flat buildings R5
  - (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 - R5

#### (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.		•	~
(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.		<b>✓</b>	-
(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	<b>~</b>	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		<b>~</b>	
(g) The pool or spa must be located as specified in the table.	~	<b>~</b>	
(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			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
1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208,	3 star (> 7.5 but <= 9 L/min)	4 star	4 star	4 star	no		5.5 star							

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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	
2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2601, 2602, 2603, 2604															
All other dwellings	3 star (> 7.5 but <= 9 L/min)	4 star	4 star	4 star	no	-	5 star	-	-	-	-	-	-	-	

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	Alternative water source									
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up		
All dwellings	on-site recycled water system (no. 1)	See central systems	See central systems	-	yes	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.		•	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		<b>~</b>	V
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		<b>~</b>	
(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 vent	ilation 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	

	Coc	ling	Hea	ting			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 kitcher
All dwellings	central cooling system 1	central cooling system 1	central heating system 1	central heating system 1	0 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	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 unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	3 star (new rating)	no	3.5 star	-	2 star	no	no

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

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	Thermal loads					
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)				
0101	6.4	29.8				
0102	23.2	20.2				
0103	19.8	23.0				
0104	38.9	28.4				
0105	29.4	36.3				
0106	16.2	30.3				
0107	3.7	32.6				
0108	6.0	21.3				
0201	8.0	21.6				
0202	26.5	16.9				
0203	22.4	19.3				
0204	37.7	23.3				
0205	28.0	26.0				
0206	19.2	21.7				
0207	5.3	25.3				
0208	8.0	15.7				
0301	8.2	21.2				
0302	26.8	17.0				
0304	38.1	23.1				
0305	28.4	25.5				
0306	19.6	21.4				
0307	5.4	24.5				
0308	8.3	15.3				
0401	8.3	21.2				
0402	27.0	16.9				
0403	22.6	19.3				
0404	38.4	23.3				

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	Thermal loads					
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)				
0405	28.8	25.5				
0406	20.0	21.3				
0407	5.5	24.0				
0408	8.4	14.8				
0501	8.5	20.9				
0502	27.2	17.3				
0503	22.7	19.4				
0504	38.6	23.4				
0505	29.2	25.3				
0506	22.4	20.9				
0507	5.6	23.4				
0508	8.6	14.5				
0601	8.6	20.7				
0602	27.2	17.0				
0604	38.7	23.9				
0605	29.5	25.0				
0607	5.7	23.2				
0608	8.7	14.2				
0701	8.7	20.9				
0702	27.2	17.2				
0703	22.5	19.5				
0704	39.0	24.4				
0705	29.9	24.5				
0706	21.2	20.1				
0707	5.9	22.9				
0708	9.0	13.3				
0801	8.6	21.2				

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	Thermal loads					
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)				
0802	27.0	18.0				
0803	23.6	19.3				
0804	40.6	23.3				
0805	31.6	21.1				
0806	21.5	19.5				
0807	6.1	23.1				
0808	9.2	13.3				
0901	9.5	17.4				
0902	28.2	16.9				
0903	23.3	19.6				
0904	40.4	23.7				
0905	31.8	20.6				
0906	23.3	16.3				
0907	7.2	20.1				
0908	10.3	11.6				
1001	9.4	17.6				
1002	27.7	16.8				
1003	22.6	19.7				
1004	40.1	24.3				
1005	32.1	20.4				
1006	23.9	16.3				
1007	7.2	19.7				
1008	10.4	11.5				
1101	9.2	18.6				
1102	27.0	17.5				
1103	21.8	19.9				
1104	39.4	25.9				

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		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
1105	32.2	20.7
1106	23.7	16.2
1107	7.3	19.4
1108	10.5	11.3
1201	9.0	19.0
1202	26.8	17.8
1203	21.6	20.1
1204	38.7	26.9
1205	32.3	20.8
1206	23.8	16.5
1207	7.3	19.3
1208	10.6	11.1
1301	8.7	19.4
1302	25.3	17.8
1303	21.5	20.3
1304	38.0	27.9
1305	32.4	20.0
1306	24.0	16.6
1308	10.7	11.1
1401	8.1	20.1
1402	23.5	18.4
1403	21.2	20.4
1404	36.8	28.9
1405	32.6	20.1
1406	24.2	16.7
1408	10.9	10.9
1501	7.9	20.5

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	Thermal loads					
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)				
1502	22.8	18.5				
1504	31.6	23.2				
1505	34.3	19.1				
1506	24.3	16.6				
1507	7.5	19.0				
1508	11.0	10.8				
1601	7.8	20.6				
1602	22.6	18.7				
1603	20.2	22.0				
1604	31.2	24.3				
1605	34.4	19.1				
1606	24.5	16.6				
1607	7.6	25.2				
1608	11.0	10.7				
1701	7.6	21.1				
1702	21.9	19.2				
1703	19.4	22.4				
1704	34.3	30.7				
1705	32.9	19.5				
1706	24.5	16.8				
1707	7.8	19.0				
1708	11.1	10.6				
1801	7.4	21.8				
1802	21.0	20.0				
1803	18.7	22.8				
1804	29.9	26.5				
1805	26.9	17.3				

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	Thermal loads					
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)				
1806	24.7	16.8				
1807	7.8	18.5				
1901	7.2	22.9				
1902	20.0	20.5				
1903	17.5	23.4				
1904	28.9	27.9				
1905	27.0	17.3				
1906	24.8	16.6				
1907	7.8	18.3				
2001	7.0	23.4				
2002	18.8	20.9				
2003	15.7	23.9				
2004	27.4	28.4				
2005	31.0	19.8				
2006	24.9	16.1				
2008	11.3	10.8				
2101	6.5	24.4				
2102	16.9	21.0				
2103	15.2	24.2				
2104	25.8	29.1				
2105	31.0	19.9				
2106	24.9	15.9				
2108	11.3	10.6				
2201	5.7	24.7				
2202	13.9	21.8				
2203	14.6	24.4				
2204	22.6	30.4				

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	Thermal loads					
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)				
2205	31.1	19.8				
2206	25.0	15.8				
2208	11.4	10.5				
2301	5.6	25.5				
2302	13.3	21.6				
2303	14.0	25.0				
2304	21.5	31.1				
2305	31.2	19.8				
2306	25.2	15.8				
2308	11.5	10.6				
2401	5.5	26.1				
2402	12.4	22.5				
2403	13.1	25.3				
2404	20.4	32.0				
2405	31.2	19.6				
2406	25.3	15.7				
2501	5.3	26.4				
2502	21.4	24.7				
2503	18.9	27.1				
2504	26.3	34.2				
2505	39.7	25.2				
2506	38.7	15.8				
2601	20.5	40.1				
2602	9.0	17.0				
2603	11.4	11.8				
2604	30.5	10.3				
P201	8.1	32.3				

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	Thermal loads					
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)				
P202	29.2	21.1				
P203	26.4	23.7				
P204	38.9	27.6				
P205	16.1	23.6				
P206	9.6	21.6				
0303, 0603	22.5	19.4				
0606, 1503	20.7	20.7				
1307, 1407	7.4	19.0				
1808, 1908	11.2	10.6				
2007, 2107	7.9	18.2				
2207, 2307	8.0	18.4				
2407, 2507	8.2	18.4				
All other dwellings	11.6	10.5				

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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.		-	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	<b>→</b>	
(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.		<u> </u>	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		<b>→</b>	V
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		•	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)
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
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 motor room (No. 1)	air conditioning system	thermostatically controlled	fluorescent	motion sensors	Yes
Garbage room (No. 2) - Tower and Podium	ventilation exhaust only	-	fluorescent	motion sensors	Yes
Community room/function	air conditioning system	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Security & control zones	air conditioning system	thermostatically controlled	fluorescent	motion sensors	Yes
Conditioned 24/7 (comm & D.A.S)	air conditioning system	thermostatically controlled	fluorescent	motion sensors	Yes
Common Amenities	ventilation exhaust only	interlocked to light	compact fluorescent	motion sensors	Yes
Plant or service room - Podium	ventilation supply only	interlocked to light	fluorescent	motion sensors	Yes
Plant or service room - Lvl 26	ventilation supply only	interlocked to light	fluorescent	motion sensors	Yes
Plant or service room - Lvl 27	ventilation supply only	interlocked to light	fluorescent	motion sensors	Yes
Fire stairs (podium & tower)	no mechanical ventilation	-	light-emitting diode	time clock and 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
R5 Residential Facilities - Basement	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
KWH and ON MKT Storage	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Hallway/lobby - Key Worker	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Ground Lobby - Key Worker Entrance	air conditioning system	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Ground Lobby - On MKT Entrance	air conditioning system	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Hallway/lobby type - On MKT	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and 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. 2)	gearless traction with V V V F motor	Number of levels (including basement): 23
Lift (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 34
Lift (No. 4)	gearless traction with V V V F motor	Number of levels (including basement): 34

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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

(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>~</b>	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	<b>~</b>	
(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.		<b>~</b>	
(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.		<b>V</b>	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 0 car washing bays on the site
Fire sprinkler system (No. 1)	-	-	-

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(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
Car park area (No. 1)	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	Yes
Switch room (No. 1)	ventilation exhaust only	interlocked to light	fluorescent	motion sensors	Yes
Garbage room (No. 1) - Basement	ventilation exhaust only	-	fluorescent	motion sensors	Yes
Plant or service room (Grease Arrester)	ventilation exhaust only	none ie. continuous	fluorescent	motion sensors	Yes
Plant or service room - Basement	ventilation supply only	interlocked to light	fluorescent	motion sensors	Yes
Hallway/Lobby (Basement)	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and 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 Unit efficiency (min): high - COP > 4.5
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 45.0 peak kW

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Central energy systems	Туре	Specification
Other	Building management system installed?: yes Active power factor correction installed?: yes	-

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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

- 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 fulfillment it is required to monitor in relation to the building or part, has been fulfilled).

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