

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

Multi Dwelling

Certificate number: 1139753M_03

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 10/09/2020 published by the Department. This document is available at www.basix.nsw.gov.au

This certificate is a revision of certificate number 1139753M lodged with the consent authority or certifier on 06 October 2020 with application DA-55/2021.

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: Monday, 29 May 2023

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



Project summary				
Project name	14858_03			
Street address	5-9 Croydon Street Lake	mba 2195		
Local Government Area	Canterbury-Bankstown C	Council		
Plan type and plan number	deposited 357959			
Lot no.	A-B			
Section no.	-			
No. of residential flat buildings	3			
No. of units in residential flat buildings	144			
No. of multi-dwelling houses	0			
No. of single dwelling houses	0			
Project score				
Water	✓ 42	Target 40		
Thermal Comfort	✓ Pass	Target Pass		
Energy	y 29	Target 25		

Certificate Prepared by



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Revision of Certificates not lodged within 3 months of the date of issue will incur further BASIX issuing fees.

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Description of project

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Project address	
Project name	14858_03
Street address	5-9 Croydon Street Lakemba 2195
Local Government Area	Canterbury-Bankstown Council
Plan type and plan number	deposited 357959
Lot no.	A-B
Section no.	-
Project type	
No. of residential flat buildings	3
No. of units in residential flat buildings	144
No. of multi-dwelling houses	0
No. of single dwelling houses	0
Site details	
Site area (m²)	6367
Roof area (m²)	2287
Non-residential floor area (m²)	0.0
Residential car spaces	163
Non-residential car spaces	0

Common area landscape				
Common area lawn (m²)	241.0			
Common area garden (m²)	1062.0			
Area of indigenous or low water use species (m²)	-			
Assessor details				
Assessor number	DMN/13/1491			
Certificate number	0005268770			
Climate zone	56			
Ceiling fan in at least one bedroom	No			
Ceiling fan in at least one living room or other conditioned area	No			
Project score				
Water	✓ 42	Target 40		
Thermal Comfort	✓ Pass	Target Pass		
Energy	✓ 29 Target 25			

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Description of project

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

Residential flat buildings - BuildingA, 34 dwellings, 8 storeys above ground

Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
A001	2	77.0	0.0	0.0	0.0
A104	2	75.0	0.0	0.0	0.0
A204	2	75.0	0.0	0.0	0.0
A304	2	75.0	0.0	0.0	0.0
A404	2	75.0	0.0	0.0	0.0
A504	2	75.0	0.0	0.0	0.0
A604	2	75.0	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)
A002	2	80.0	0.0	0.0	0.0
A105	2	80.0	0.0	0.0	0.0
A205	2	86.0	0.0	0.0	0.0
A305	2	86.0	0.0	0.0	0.0
A405	2	86.0	0.0	0.0	0.0
A505	2	86.0	0.0	0.0	0.0
A701	3	106.0	0.0	0.0	0.0

Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
A101	2	79.0	0.0	0.0	0.0
A201	2	80.0	0.0	0.0	0.0
A301	2	80.0	0.0	0.0	0.0
A401	2	80.0	0.0	0.0	0.0
A501	2	80.0	0.0	0.0	0.0
A601	2	80.0	0.0	0.0	0.0
A702	3	106.0	0.0	0.0	0.0
ctoro	vc	aha	aı	oun	4

Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
A102	2	75.0	0.0	0.0	0.0
A202	2	79.0	0.0	0.0	0.0
A302	2	79.0	0.0	0.0	0.0
A402	2	79.0	0.0	0.0	0.0
A502	2	79.0	0.0	0.0	0.0
A602	2	79.0	0.0	0.0	0.0
A703	2	75.0	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)
A103	2	75.0	0.0	0.0	0.0
A203	2	79.0	0.0	0.0	0.0
A303	2	76.0	0.0	0.0	0.0
A403	2	79.0	0.0	0.0	0.0
A503	2	79.0	0.0	0.0	0.0
A603	2	79.0	0.0	0.0	0.0

Residential flat buildings - BuildingB, 35 dwellings, 7 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)
B101	1	56.0	0.0	0.0	0.0
B201	2	81.0	0.0	0.0	0.0
B206	2	75.0	0.0	0.0	0.0
B305	2	80.0	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 & Iawn (m²)	Indigenous species
B102	1	54.0	0.0	0.0	0.0
B202	2	77.0	0.0	0.0	0.0
B301	2	81.0	0.0	0.0	0.0
B306	2	75.0	0.0	0.0	0.0

Dwelling no.	No of hadrooms	nditioned fl sa (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
B1	03 2	77.0	0.0	0.0	0.0
B2	03 1	54.0	0.0	0.0	0.0
В3	02 2	77.0	0.0	0.0	0.0
B4	01 2	81.0	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)
B104	2	80.0	0.0	0.0	0.0
B204	2	77.0	0.0	0.0	0.0
B303	1	54.0	0.0	0.0	0.0
B402	2	77.0	0.0	0.0	0.0

Dwelling no. No. of hedrooms Conditioned floor area (m²) Unconditioned floor area (m²) Area of garden & lawn (m²)	(min area
B105 2 75.0 0.0 0.0 0.0	
B205 2 80.0 0.0 0.0 0.0	
B304 2 77.0 0.0 0.0 0.0	
B403 1 54.0 0.0 0.0 0.0	

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Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
B404	2	77.0	0.0	0.0	0.0
B503	1	54.0	0.0	0.0	0.0
B602	2	77.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
3405	2	80.0	0.0	0.0	0.0
3504	2	77.0	0.0	0.0	0.0
3603	3	124.0	0.0	0.0	0.0

	Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
Ĭ	B406	2	75.0	0.0	0.0	0.0
	B505	2	80.0	0.0	0.0	0.0
	B701	2	81.0	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)
B501	2	81.0	0.0	0.0	0.0
B506	2	75.0	0.0	0.0	0.0
B702	2	77.0	0.0	0.0	0.0

Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B502	2	77.0	0.0	0.0	0.0
B601	2	81.0	0.0	0.0	0.0
B703	3	124.0	0.0	0.0	0.0

Residential flat buildings - BuildingC, 75 dwellings, 10 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)
C101	3	101.0	0.0	0.0	0.0
C106	2	81.0	0.0	0.0	0.0
C203	2	83.0	0.0	0.0	0.0
C208	2	73.0	0.0	0.0	0.0
C304	2	80.0	0.0	0.0	0.0
C309	2	76.0	0.0	0.0	0.0
C405	3	104.0	0.0	0.0	0.0
C501	1	40.0	0.0	0.0	0.0
C506	2	76.0	0.0	0.0	0.0
C602	2	78.0	0.0	0.0	0.0
C607	3	80.0	0.0	0.0	0.0
C703	2	83.0	0.0	0.0	0.0

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Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
C102	3	108.0	0.0	0.0	0.0
C107	1	50.0	0.0	0.0	0.0
C204	. 2	80.0	0.0	0.0	0.0
C209	2	76.0	0.0	0.0	0.0
C305	3	104.0	0.0	0.0	0.0
C401	1	40.0	0.0	0.0	0.0
C406	3	104.0	0.0	0.0	0.0
C502	2	78.0	0.0	0.0	0.0
C507	3	80.0	0.0	0.0	0.0
C603	2	83.0	0.0	0.0	0.0
C608	2	73.0	0.0	0.0	0.0
C704	. 2	80.0	0.0	0.0	0.0

Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous specie (min area m²)
C103	2	83.0	0.0	0.0	0.0
C108	1	47.0	0.0	0.0	0.0
C205	3	104.0	0.0	0.0	0.0
C301	1	40.0	0.0	0.0	0.0
C306	3	104.0	0.0	0.0	0.0
C402	2	78.0	0.0	0.0	0.0
C407	3	80.0	0.0	0.0	0.0
C503	2	83.0	0.0	0.0	0.0
C508	2	73.0	0.0	0.0	0.0
C604	2	80.0	0.0	0.0	0.0
C609	2	76.0	0.0	0.0	0.0
C705	2	76.0	0.0	0.0	0.0

Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
C104	. 1	50.0	0.0	0.0	0.0
C201	1	40.0	0.0	0.0	0.0
C206	3	104.0	0.0	0.0	0.0
C302	2	78.0	0.0	0.0	0.0
C307	3	80.0	0.0	0.0	0.0
C403	2	83.0	0.0	0.0	0.0
C408	2	73.0	0.0	0.0	0.0
C504	2	80.0	0.0	0.0	0.0
C509	2	76.0	0.0	0.0	0.0
C605	2	76.0	0.0	0.0	0.0
C701	1	40.0	0.0	0.0	0.0
C706	2	76.0	0.0	0.0	0.0

Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
C105	2	81.0	0.0	0.0	0.0
C202	2	78.0	0.0	0.0	0.0
C207	3	80.0	0.0	0.0	0.0
C303	2	83.0	0.0	0.0	0.0
C308	2	73.0	0.0	0.0	0.0
C404	2	80.0	0.0	0.0	0.0
C409	2	76.0	0.0	0.0	0.0
C505	2	76.0	0.0	0.0	0.0
C601	1	40.0	0.0	0.0	0.0
C606	2	76.0	0.0	0.0	0.0
C702	2	78.0	0.0	0.0	0.0
C707	3	80.0	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 & Iawn (m²)	Indigenous species (min area m²)
C708	2	73.0	0.0	0.0	0.0
C804	1	56.0	0.0	0.0	0.0
C904	. 1	56.0	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
C709	2	76.0	0.0	0.0	0.0
C805	2	76.0	0.0	0.0	0.0
C100	13	100.0	0.0	0.0	0.0
0.00					

Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
C801	1	40.0	0.0	0.0	0.0
C901	3	100.0	0.0	0.0	0.0
C100	23	107.0	0.0	0.0	0.0

Dwelling no.	No. of hedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
C802	2	78.0	0.0	0.0	0.0
C902	3	107.0	0.0	0.0	0.0
C100	32	74.0	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)
C803	2	74.0	0.0	0.0	0.0
C903	2	74.0	0.0	0.0	0.0
C100	41	56.0	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 - BuildingA

Common area	Floor area (m²)
Lift car (No.1)	-

Common area	Floor area (m²)
Lobby (LG)	77.0

Common areas of unit building - BuildingB

Common area	Floor area (m²)
Lift car (No.2)	-

Common areas of unit building - BuildingC

Common area	Floor area (m²)
Lift car (No.3)	-
Lobby (L9)	23.0

Common area	Floor area (m²)
Lift car (No.4)	-
Lobby (L10)	23.0

ı	Common area	Floor area (m²)
	Lobby (L8)	29.0

Common areas of the development (non-building specific)

Common area	Floor area (m²)
Car park area (B2)	2835.0
Waste/Storage (L1)	105.0
Main Switchboard (LG)	18.0
Managers Office (LG)	22.0
Plant room (B1)	12.0
Lobby (L6)	98.0

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Common area	Floor area (m²)
Car park area (B1)	2461.0
Plant Room (B2)	12.0
Comms (LG)	12.0
Hyd/Pump Room (LG)	10.0
Lobby (L1)	178.0
Lobby (L7)	98.0

Common area	Floor area (m²)
Waste Rooms (B1)	226.0
Storage/Bicycle Area (LG)	255.0
Carpark Exhaust Room (LG)	35.0
Fire/Service Pump Room (LG)	32.0
Lobby (L2-L5)	556.0

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Schedule of BASIX commitments

- 1. Commitments for Residential flat buildings BuildingA
 - (a) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Comfort
 - (b) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy
- 2. Commitments for Residential flat buildings BuildingB
 - (a) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Comfort
 - (b) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy
- 3. Commitments for Residential flat buildings BuildingC
 - (a) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Comfort
 - (b) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy
- 4. Commitments for multi-dwelling houses
- 5. Commitments for single dwelling houses

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6. Co	ommitments for common areas (i) Water (ii) Energy	s and central systems/fa	cilities for the development (non-l	building specific)		
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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 - BuildingA

(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		•	V
(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
All dwellings	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	-	3 star	-	-	-	-	-	-	-

	Alternative water source								
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up	
None	-	-	-	-	-	-	-	-	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifie 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.		~	~

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

	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	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual on / timer off	individual fan, ducted to façade or roof	interlocked to light	

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	Coo	ling	Hea	ting			Artificial	lighting			Natural lig	hting
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
A604, A703	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes
A701, A702	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no
A001, A002, A101, A104, A105, A204, A205, A304, A305, A404, A405, A501, A504, A505	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
All other dwellings	1-phase airconditioning 3 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no

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	Individual po	al pool Individual spa		Appliances & other efficiency measures								
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	-	yes	3 star	-	-	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	~	~
(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	~

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		Thermal loads								
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)								
A001	38.5	20.2								
A002	32.5	27.3								
A101	18.8	22.3								
A102	7.2	18.7								
A103	14.2	23.1								
A104	31.8	24.5								
A105	23.6	25.1								
A201	18.8	25.0								
A202	7.6	14.3								
A203	13.0	15.4								
A204	25.9	20.5								
A205	21.8	16.5								
A301	22.3	24.5								
A302	11.3	16.1								
A303	17.9	18.8								
A304	31.2	21.1								
A305	30.6	16.6								
A401	23.0	21.0								
A402	10.6	13.5								
A403	16.6	13.2								
A404	32.1	20.6								
A405	31.5	16.6								
A501	23.7	20.5								
A502	11.1	13.6								
A503	17.3	12.8								
A504	32.8	20.6								
A505	36.7	17.1								

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	Thermal loads							
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)						
A601	29.9	19.3						
A602	11.3	11.1						
A603	17.1	11.5						
A604	39.2	16.9						
A701	12.2	27.4						
A702	21.2	24.9						
All other dwellings	44.2	29.1						

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(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.		<u> </u>	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.		<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.		•	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	no common facility	no common facility	3 star	no common laundry facility

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

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	Common area v	entilation 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.1)	-	-	light-emitting diode	connected to lift call button	No		
Lobby (LG)	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	No		

Central energy systems	Туре	Specification
Central hot water system (No. 1)	gas instantaneous	Piping insulation (ringmain & supply risers): (b) Piping internal to building: R1.0 (~38 mm)
Lift (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 10

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2. Commitments for Residential flat buildings - BuildingB

(a) Dwellings

BASIX

(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		✓	V
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		→	-
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	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.	•	✓	
(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
All dwellings	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	-	3 star	-	-	-	-	-	-	-

	Alternative water source										
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up			
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.		~	~

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(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	~	~	~
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:			
(aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and		~	
(bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		•	
(h) The applicant must install in the dwelling:			
(aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		•	
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		•	V
(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 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 2	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual on / timer off	individual fan, ducted to façade or roof	interlocked to light	

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	Coo	ling	Hea	Heating			Artificial	Artificial lighting				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 kitchei
B105	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no
B603, B703	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no
B101, B102, B203, B303, B403, B503	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
All other dwellings	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

	Individual pool Individual spa			Appliances & other efficiency measures								
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	-	yes	3 star	-	-	no	-

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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	

		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
B101	30.7	14.3
B102	24.7	15.3
B103	14.7	15.7
B104	30.4	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)					
B105	41.1	22.1					
B201	22.2	9.0					
B202	15.9	16.3					
B203	16.4	20.3					
B204	11.1	19.7					
B205	17.9	9.4					
B206	37.6	15.7					
B301	16.3	8.7					
B302	20.0	15.2					
B303	20.8	18.3					
B304	14.3	17.9					
B305	23.6	8.1					
B306	43.5	13.2					
B401	17.1	8.5					
B402	20.9	15.1					
B403	21.8	18.4					
B404	15.0	17.8					
B405	24.4	7.8					
B406	44.4	12.3					
B501	17.7	8.2					
B502	21.4	14.9					
B503	22.5	18.1					
B504	22.8	21.3					
B505	30.9	8.6					
B506	45.4	12.6					
B601	18.2	8.1					
B602	20.9	14.9					

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		Thermal loads				
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)				
B603	22.5	7.6				
B701	16.5	11.9				
B702	9.9	28.7				
All other dwellings	19.2	13.9				

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(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.		<u> </u>	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.		<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.		<u> </u>	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	no common facility	no common facility	3 star	no common laundry facility

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

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	Common area v	entilation 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	No	

Central energy systems	Туре	Specification
Central hot water system (No. 2)	gas instantaneous	Piping insulation (ringmain & supply risers): (b) Piping internal to building: R1.0 (~38 mm)
Lift (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 9

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3. Commitments for Residential flat buildings - BuildingC

(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		✓	V
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		→	-
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	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.	•	✓	
(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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			Fixtur	es		Appli	ances		Indi	vidual pool		İn	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
All dwellings	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	-	3 star	-	-	-	-	-	-	-

		Alternative water source									
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up			
None	-	-	-	-	-	-	-	-			

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifie 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.		~	~

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

	Hot water	Bathroom ventilation 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 3	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual on / timer off	individual fan, ducted to façade or roof	interlocked to light	

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	Coo	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 kitche
C803, C903, C1003	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no
C101, C102, C207, C307, C407, C507, C607,	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
C402, C502, C505, C506, C602, C605, C606, C702, C705,	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes
C205, C206, C305, C306, C405, C406, C901, C902, C1001, C1002	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes

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	Coo	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 kitche
C104, C107, C108, C201, C301, C401, C501, C601, C701, C804, C904, C1004	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
All other dwellings	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	1-phase airconditioning 3 star (average zone)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

	Individual po	ool	Individual s	Individual spa		Appliances & other efficiency measures									
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line			
All dwellings	-	-	-	-	gas cooktop & electric oven	-	yes	3 star	-	-	no	-			

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		Thermal loads						
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)						
C101	8.9	16.4						
C102	14.4	17.2						
C103	34.5	17.4						
C104	37.1	24.6						

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		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
C105	42.3	18.8
C106	25.0	19.9
C107	22.1	23.7
C108	14.9	28.2
C201	7.2	16.8
C202	11.6	15.7
C203	23.7	22.3
C204	42.6	19.9
C205	31.6	11.6
C206	21.6	12.1
C207	10.4	20.8
C208	5.0	23.4
C209	6.6	13.5
C301	13.5	16.2
C302	18.6	17.9
C303	27.5	18.4
C304	25.6	17.8
C305	32.8	9.3
C306	20.0	12.8
C307	11.3	16.7
C308	7.6	17.1
C309	10.8	17.2
C401	14.3	16.2
C402	19.4	17.2
C403	29.5	18.4
C404	24.2	18.6
C405	39.0	12.4

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		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
C406	24.4	13.2
C407	11.1	16.3
C408	8.2	17.2
C409	11.5	17.0
C501	14.7	15.9
C502	19.8	16.8
C503	29.0	17.8
C504	24.5	17.2
C505	32.0	11.3
C506	20.1	11.0
C507	12.5	16.2
C508	11.5	16.7
C509	12.1	16.4
C601	15.2	15.5
C602	20.3	16.9
C603	30.7	18.1
C604	25.3	18.5
C605	35.4	12.0
C606	21.7	13.1
C607	12.1	15.9
C608	12.5	17.3
C609	12.4	16.1
C701	8.2	27.1
C702	20.9	16.8
C703	31.9	17.4
C704	28.5	28.7
C705	36.9	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)			
C706	27.0	13.6			
C707	17.9	16.8			
C708	13.6	17.7			
C709	12.8	15.8			
C801	6.1	19.0			
C802	17.7	15.5			
C803	38.9	11.7			
C804	24.9	13.8			
C805	12.1	11.3			
C901	10.4	14.1			
C902	15.6	13.3			
C903	42.3	12.9			
C904	25.4	15.4			
C1001	16.2	15.0			
C1002	23.2	15.6			
C1003	39.1	25.5			
All other dwellings	31.0	16.1			

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(b) Common areas and central systems/facilities

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(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	<u> </u>	
(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	no common facility	no common facility	3 star	no common laundry facility

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

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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	
Lift car (No.3)	-	-	light-emitting diode	connected to lift call button	No	
Lift car (No.4)	-	-	light-emitting diode	connected to lift call button	No	
Lobby (L8)	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	No	
Lobby (L9)	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	No	
Lobby (L10)	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	No	

Central energy systems	Туре	Specification
Central hot water system (No. 3)	gas instantaneous	Piping insulation (ringmain & supply risers): (b) Piping internal to building: R1.0 (~38 mm)
Lift (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 12
Lift (No. 4)	gearless traction with V V V F motor	Number of levels (including basement): 9

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6. 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.		~	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.		V	
(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	no common facility	no common facility	3 star	no common laundry facility

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

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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
Car park area (B2)	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	daylight sensor and motion sensor	No
Car park area (B1)	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	daylight sensor and motion sensor	No
Waste Rooms (B1)	ventilation exhaust only	-	light-emitting diode	manual on / manual off	No
Waste/Storage (L1)	ventilation exhaust only	-	light-emitting diode	manual on / manual off	No
Plant Room (B2)	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
Storage/Bicycle Area (LG)	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	No
Main Switchboard (LG)	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
Comms (LG)	air conditioning system	thermostatically controlled	light-emitting diode	manual on / manual off	No
Carpark Exhaust Room (LG)	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
Managers Office (LG)	air conditioning system	thermostatically controlled	light-emitting diode	manual on / manual off	No
Hyd/Pump Room (LG)	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
Fire/Service Pump Room (LG)	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
Plant room (B1)	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
Lobby (L1)	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	No
Lobby (L2-L5)	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	No
Lobby (L6)	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	No
Lobby (L7)	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	No

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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

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- 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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