

BASIX™ Certificate

Building Sustainability Index

www.planningportal.nsw.gov.au/development-and-assessment/basix

Multi Dwelling

Certificate number: 1828453M

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.planningportal.nsw.gov.au/definitions

Secretary

Date of issue: Thursday, 08 January 2026

To be valid, this certificate must be submitted with a development application or lodged with a complying development certificate application within 3 months of the date of issue.



When submitting this BASIX certificate with a development application or complying development certificate application, it must be accompanied by NatHERS certificate HR-XAJB9V-01.

Project summary

Project name	250117 - 810 Pacific Highway, Gordon
Street address	810 PACIFIC HIGHWAY GORDON 2072
Local Government Area	KU-RING-GAI
Plan type and plan number	Strata Plan 631351
Lot No.	12
Section no.	-
No. of residential flat buildings	1
Residential flat buildings: no. of dwellings	180
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

Project score

Water	✓ 49	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 65	Target 63
Materials	✓ -99	Target n/a

Certificate Prepared by

Name / Company Name: CREDWELL ENERGY PTY LTD

ABN (if applicable): 65625598352

Description of project

Project address	
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Street address	810 PACIFIC HIGHWAY GORDON 2072
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Plan type and plan number	Strata Plan 631351
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Section no.	-
Project type	
No. of residential flat buildings	1
Residential flat buildings: no. of dwellings	180
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	2357
Roof area (m²)	648.35
Non-residential floor area (m²)	2095.83
Residential car spaces	238
Non-residential car spaces	27

Common area landscape		
Common area lawn (m²)	0	
Common area garden (m²)	368.89	
Area of indigenous or low water use species (m²)	0	
Assessor details and thermal loads		
Assessor number	101535	
Certificate number	HR-XAJB9V-01	
Climate zone	56	
Project score		
Water	✓ 49	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 65	Target 63
Materials	✓ -99	Target n/a

Description of project

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

Residential flat buildings - Building1, 180 dwellings, 29 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
1001	1	55.3	0	0	0
1005	2	85.8	0	0	0
1101	1	55.3	0	0	0
1105	2	85.8	0	0	0
1201	1	55.3	0	0	0
1205	2	85.8	0	0	0
1301	1	55.3	0	0	0
1305	2	85.8	0	0	0
1401	1	55.3	0	0	0
1405	2	85.8	0	0	0
1501	1	55.3	0	0	0
1505	3	128.3	0	0	0
1602	1	66.2	0	0	0
1606	3	133.8	0	0	0
1703	3	98.1	0	0	0
1707	3	119.2	0	0	0
1804	2	86.3	0	0	0
1901	1	55.3	0	0	0
1905	3	128.3	0	0	0
2002	1	66.2	0	0	0
2006	3	133.8	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
1002	1	66.2	0	0	0
1006	2	91.1	0	0	0
1102	1	66.2	0	0	0
1106	2	91.1	0	0	0
1202	1	66.2	0	0	0
1206	2	91.1	0	0	0
1302	1	66.2	0	0	0
1306	2	91.1	0	0	0
1402	1	66.2	0	0	0
1406	2	91.1	0	0	0
1502	1	66.2	0	0	0
1506	3	133.8	0	0	0
1603	3	98.1	0	0	0
1607	3	119.2	0	0	0
1704	2	86.3	0	0	0
1801	1	55.3	0	0	0
1805	3	128.3	0	0	0
1902	1	66.2	0	0	0
1906	3	133.8	0	0	0
2003	3	98.1	0	0	0
2007	3	119.2	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
1003	3	98.1	0	0	0
1007	2	88.6	0	0	0
1103	3	98.1	0	0	0
1107	2	88.6	0	0	0
1203	3	98.1	0	0	0
1207	2	88.6	0	0	0
1303	3	98.1	0	0	0
1307	2	88.6	0	0	0
1403	3	98.1	0	0	0
1407	2	88.6	0	0	0
1503	3	98.1	0	0	0
1507	3	119.2	0	0	0
1604	2	86.3	0	0	0
1701	1	55.3	0	0	0
1705	3	128.3	0	0	0
1802	1	66.2	0	0	0
1806	3	133.8	0	0	0
1903	3	98.1	0	0	0
1907	3	119.2	0	0	0
2004	2	86.3	0	0	0
201	1	55.3	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
1004	2	83.5	0	0	0
1008	2	90.1	0	0	0
1104	2	83.5	0	0	0
1108	2	90.1	0	0	0
1204	2	83.5	0	0	0
1208	2	90.1	0	0	0
1304	2	83.5	0	0	0
1308	2	90.1	0	0	0
1404	2	83.5	0	0	0
1408	2	90.1	0	0	0
1504	2	86.3	0	0	0
1601	1	55.3	0	0	0
1605	3	128.3	0	0	0
1702	1	66.2	0	0	0
1706	3	133.8	0	0	0
1803	3	98.1	0	0	0
1807	3	119.2	0	0	0
1904	2	86.3	0	0	0
2001	1	55.3	0	0	0
2005	3	128.3	0	0	0
202	1	66.2	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
203	3	98.1	0	0	0
207	2	88.4	0	0	0
2104	2	86.3	0	0	0
2201	1	55.3	0	0	0
2205	3	129	0	0	0
2302	1	66.2	0	0	0
2306	3	133.8	0	0	0
2403	2	86.3	0	0	0
2502	3	98.1	0	0	0
2601	3	110.7	0	0	0
301	1	55.3	0	0	0
305	2	85.8	0	0	0
401	1	55.3	0	0	0
405	2	85.8	0	0	0
501	1	55.3	0	0	0
505	2	85.8	0	0	0
601	1	55.3	0	0	0
605	2	85.8	0	0	0
701	1	55.3	0	0	0
705	2	85.8	0	0	0
801	1	55.3	0	0	0
805	2	85.8	0	0	0
901	1	55.3	0	0	0
905	2	85.8	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
204	2	84.1	0	0	0
2101	1	55.3	0	0	0
2105	3	129	0	0	0
2202	1	66.2	0	0	0
2206	3	133.8	0	0	0
2303	3	98.1	0	0	0
2307	3	119.2	0	0	0
2404	4+	144.8	0	0	0
2503	2	86.3	0	0	0
2602	2	80.1	0	0	0
302	1	66.2	0	0	0
306	2	91.1	0	0	0
402	1	66.2	0	0	0
406	2	91.1	0	0	0
502	1	66.2	0	0	0
506	2	91.1	0	0	0
602	1	66.2	0	0	0
606	2	91.1	0	0	0
702	1	66.2	0	0	0
706	2	91.1	0	0	0
802	1	66.2	0	0	0
806	2	91.1	0	0	0
902	1	66.2	0	0	0
906	2	91.1	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
205	2	87.2	0	0	0
2102	1	66.2	0	0	0
2106	3	133.8	0	0	0
2203	3	98.1	0	0	0
2207	3	119.2	0	0	0
2304	2	86.3	0	0	0
2401	3	118.2	0	0	0
2405	3	119.2	0	0	0
2504	4+	144.8	0	0	0
2701	4+	313.9	0	0	0
303	3	98.1	0	0	0
307	2	88.6	0	0	0
403	3	98.1	0	0	0
407	2	88.6	0	0	0
503	3	98.1	0	0	0
507	2	88.6	0	0	0
603	3	98.1	0	0	0
607	2	88.6	0	0	0
703	3	98.1	0	0	0
707	2	88.6	0	0	0
803	3	98.1	0	0	0
807	2	88.6	0	0	0
903	3	98.1	0	0	0
907	2	88.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
206	2	92.6	0	0	0
2103	3	98.1	0	0	0
2107	3	119.2	0	0	0
2204	2	86.3	0	0	0
2301	1	55.3	0	0	0
2305	3	129	0	0	0
2402	3	98.1	0	0	0
2501	3	118.2	0	0	0
2505	3	119.2	0	0	0
2702	3	163.1	0	0	0
304	2	83.5	0	0	0
308	2	90.1	0	0	0
404	2	83.5	0	0	0
408	2	90.1	0	0	0
504	2	83.5	0	0	0
508	2	90.1	0	0	0
604	2	83.5	0	0	0
608	2	90.1	0	0	0
704	2	83.5	0	0	0
708	2	90.1	0	0	0
804	2	83.5	0	0	0
808	2	90.1	0	0	0
904	2	83.5	0	0	0
908	2	90.1	0	0	0

Description of project

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

Common areas of unit building - Building1

Common area	Floor area (m²)
Lift bank (No. 1)	-
Lift bank (No. 4)	-
Electrical/Comms/BMS	62.18
Garbage room	305.75
Mech/Pump	438.99
Building manager office	11.86

Common area	Floor area (m²)
Lift bank (No. 2)	-
Gym area (Health and wellness L1)	113.9
Service/Switch	154.88
Community rooms (Communal)	36.17
ACC/WC/End of Trip	43.43
Ground floor lobby	134.52

Common area	Floor area (m²)
Lift bank (No. 3)	-
Basement Carpark (B6-B1)	9669.7
Bin Rooms (COMMERCIAL)	41.93
Community room (mail + library)	97.49
Fire Stairs	747.31
Hallway/lobby type (L2-Top)	2132.8

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building1

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for multi-dwelling housing

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

3. Commitments for single dwelling houses

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

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

(b) Common areas and central systems/facilities

(i) Water

(ii) Energy

Schedule of BASIX commitments

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

1. Commitments for Residential flat buildings - Building1

(a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
concrete slab on ground, frame:	1600	-	none
suspended floor above enclosed subfloor, frame: suspended concrete slab	25000	-	-
suspended floor above open subfloor, frame: suspended concrete slab	3000	fibreglass batts or roll	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	single skin autoclaved aerated concrete (AAC), frame: light steel frame	10000	-	fibreglass batts or roll
External wall type 2	framed (metal clad), frame: light steel frame	20000	-	fibreglass batts or roll

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	200 mm AAC block, frame:light steel frame	4000	fibreglass batts or roll
Internal wall type 2	plasterboard, frame:light steel frame	12000	-
Internal wall type 3	75 mm AAC panel, frame:light steel frame	3000	-
Internal wall type 4	single skin masonry, frame:light steel frame	1000	fibreglass batts or roll

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	700	60% cement substitute

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: light steel frame	2000	foil backed blanket	expanding foam

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
800	8000	0	8800	0	0	0	0

(b) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 4.5 but <= 6 L/min)	4 star	5 star	5 star	-	3 star	4 star	-	-	-	-	-	-	-

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

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

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		✓	✓
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 1)	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	0	yes

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	electric cooktop & electric oven	4 star	6 star	no	no

(iii) Thermal Performance	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: (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.	✓	✓	✓
(i) The applicant must show on The plans accompanying The development application for The proposed development, The locations of ceiling fans set out in The Assessor Certificate.	✓		
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		✓	

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
1001	3.3	14.5	17.800
1002	10.3	14.3	24.600
1003	22.3	9.1	31.400
1004	26.9	10.3	37.200

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
1005	8.6	11.1	19.700
1006	5.4	6	11.400
1007	8.1	5.4	13.500
1008	4.1	12	16.100
1101	3.3	14.8	18.100
1102	10.5	14.1	24.600
1103	22.6	9	31.600
1104	27.3	10.1	37.400
1105	8.8	11.7	20.500
1107	8.4	5.4	13.800
1108	4	12.9	16.900
1201	3.4	14.6	18.000
1202	10.6	14.1	24.700
1203	22.8	8.9	31.700
1204	27.4	10.2	37.600
1205	8.9	11.4	20.300
1208	3.8	14.5	18.300
1301	3.6	14	17.600
1302	10.8	13.9	24.700
1303	23.1	8.9	32.000
1304	27.7	9.9	37.600
1305	9.1	11.1	20.200
1306	5.8	5.8	11.600
1307	8.7	5.3	14.000
1308	3.8	17.9	21.700
1401	3.6	14.4	18.000
1402	10.9	13.9	24.800
1404	27.9	10	37.900
1405	9.2	11	20.200
1406	6	5.7	11.700
1407	8.8	5.3	14.100

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
1408	3.4	16.4	19.800
1501	4.5	13.4	17.900
1502	9.9	14.1	24.000
1503	22.3	8.5	30.800
1504	26.8	8.9	35.700
1505	13.6	9.7	23.300
1506	7.9	5.2	13.100
1507	5.3	7.1	12.400
1601	3.7	14.5	18.200
1602	10	14	24.000
1603	22.5	8.6	31.100
1604	26.9	9	35.900
1605	12.6	9.6	22.200
1606	8	5.2	13.200
1607	4.9	6.6	11.500
1701	4.2	14.2	18.400
1702	10.1	14	24.100
1703	22.6	8.6	31.200
1704	27.1	9	36.100
1705	12.7	9.4	22.100
1706	8.2	5.2	13.400
1707	5.1	6.4	11.500
1801	3.8	14	17.800
1802	10.2	13.9	24.100
1803	22.8	8.3	31.100
1804	27.2	8.9	36.100
1805	12.8	9.4	22.200
1806	8.3	5.2	13.500
1807	5.1	6.5	11.600
1901	3.9	13.7	17.600
1902	10.3	13.8	24.100

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
1903	22.9	8.4	31.300
1904	27.4	8.8	36.200
1905	13	9.6	22.600
1906	8.4	5.3	13.700
1907	5.6	6.2	11.800
2001	4	13.8	17.800
2002	10.4	14	24.400
2003	23.7	8.4	32.100
2004	27.5	8.9	36.400
2005	13	9.2	22.200
2007	5.3	6.4	11.700
201	1.3	20.1	21.400
202	3	15.7	18.700
203	21	11.8	32.800
204	23.4	10.1	33.500
205	4.7	13.9	18.600
206	1.4	9.1	10.500
207	1.9	8.2	10.100
2101	3.8	13.8	17.600
2102	11.4	11.1	22.500
2103	24.1	8.6	32.700
2104	27.5	10.3	37.800
2105	12.4	11	23.400
2106	8.7	5.2	13.900
2107	5.6	7	12.600
2201	3.8	13.6	17.400
2202	11.5	10.8	22.300
2203	24.3	8.7	33.000
2204	27.6	10.2	37.800
2205	12.40	11	23.400
2206	8.8	5.2	14.000

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
2207	5.7	6.8	12.500
2301	4.1	13.2	17.300
2302	11.8	11.7	23.500
2304	26.3	8.5	34.800
2305	19.7	13.7	33.400
2306	9	5	14.000
2307	4.5	7.3	11.800
2401	11.00	4.5	15.500
2402	24.3	9.5	33.800
2403	26.8	8.1	34.900
2404	10.6	5.5	16.100
2405	4.7	7.5	12.200
2501	10.9	7.9	18.800
2502	25.7	10.6	36.300
2503	25.1	9.7	34.800
2504	17	7.6	24.600
2505	6.2	9	15.200
2601	12.6	10.1	22.700
2602	24.8	12.5	37.300
2701	23	12.4	35.400
2702	16.9	9.7	26.600
301	2.6	16.1	18.700
302	8.6	10.1	18.700
303	18.9	9.7	28.600
304	25.2	10.6	35.800
307	7.3	6.7	14.000
308	3.6	7.9	11.500
401	2.7	16.2	18.900
402	8.9	16	24.900
403	20.4	9.1	29.500
404	25	10.7	35.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
405	7.1	12.6	19.700
406	4.3	6.8	11.100
407	6.8	5.8	12.600
408	3.8	6.8	10.600
501	2.7	15.7	18.400
502	9.4	15.2	24.600
503	20.8	9	29.800
504	20.8	10.5	31.300
505	7.6	11.8	19.400
506	4.6	6.1	10.700
507	7.2	5.6	12.800
508	3.8	11.2	15.000
601	2.8	15.4	18.200
602	9.6	15.1	24.700
603	21.2	9	30.200
604	25.80	10.3	36.100
605	7.9	11.7	19.600
606	4.7	6.1	10.800
607	7.4	5.5	12.900
608	3.8	11.5	15.300
701	2.9	15.2	18.100
702	9.8	14.9	24.700
703	21.5	9	30.500
704	21.50	10.3	31.800
705	8.1	11.5	19.600
706	4.9	6	10.900
707	7.5	5.4	12.900
708	3.8	11.3	15.100
803	21.80	9.1	30.900
804	26.5	10	36.500
807	7.8	5.5	13.300

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
808	3.9	11.5	15.400
901	3.2	14.6	17.800
902	10.1	14.6	24.700
903	22.1	9	31.100
904	26.7	10.2	36.900
905	8.5	11.4	19.900
906	5.3	5.8	11.100
907	8	5.4	13.400
908	3.7	11.6	15.300
1106, 1206	5.6	5.9	11.500
1207, 2006	8.5	5.3	13.800
1403, 2303	23.3	8.9	32.200
305, 306	5.4	8	13.400
801, 802	3	14.9	17.900
All other dwellings	8.3	11.7	20.000

(c) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	4 star (> 6 but <= 7.5 L/min)	4 star	5 star	no common laundry facility

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

	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 bank (No. 1)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 2)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 3)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 4)	-	-	light-emitting diode	connected to lift call button	-
Gym area (Health and wellness L1)	no mechanical ventilation	-	light-emitting diode	daylight sensors	no
Basement Carpark (B6-B1)	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	zoned switching with motion sensor	no
Loading Dock (LD)	ventilation exhaust only	carbon monoxide monitor + VSD fan	fluorescent	time clock and motion sensors	yes
Electrical/Comms/BMS	ventilation exhaust only	thermostatically controlled	fluorescent	motion sensors	no
Service/Switch	ventilation exhaust only	thermostatically controlled	fluorescent	motion sensors	no
Bin Rooms (COMMERCIAL)	ventilation exhaust only	-	fluorescent	motion sensors	no
Garbage room	ventilation exhaust only	-	fluorescent	motion sensors	no
Community rooms (Communal)	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	no
Community room (mail + library)	air conditioning system	time clock or BMS controlled	light-emitting diode	time clocks	yes
Mech/Pump	no mechanical ventilation	-	fluorescent	motion sensors	no
ACC/WC/End of Trip	ventilation exhaust only	none i.e., continuous	light-emitting diode	motion sensors	no
Fire Stairs	no mechanical ventilation	-	fluorescent	motion sensors	no
Building manager office	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Ground floor lobby	air conditioning system	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	yes
Hallway/lobby type (L2-Top)	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	yes

Central energy systems	Type	Specification
Lift bank (No. 1)	gearless traction with V V V F motor	Number of levels with apartments served by a lift: 28 number of levels from the bottom of the lift shaft to the top of the lift shaft: 34 number of lifts: 1 lift load capacity: <1001 kg

Central energy systems	Type	Specification
Lift bank (No. 2)	gearless traction with V V V F motor	Number of levels with apartments served by a lift: 28 number of levels from the bottom of the lift shaft to the top of the lift shaft: 34 number of lifts: 1 lift load capacity: <1001 kg
Lift bank (No. 3)	gearless traction with V V V F motor	Number of levels with apartments served by a lift: 28 number of levels from the bottom of the lift shaft to the top of the lift shaft: 34 number of lifts: 1 lift load capacity: <1001 kg
Lift bank (No. 4)	gearless traction with V V V F motor	Number of levels with apartments served by a lift: 1 number of levels from the bottom of the lift shaft to the top of the lift shaft: 1 number of lifts: 1 lift load capacity: <1001 kg
Central hot water system (No. 1)	electric heat pump – air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm) (c) Unit Efficiency: $3.0 < COP \leq 3.5$

2. Commitments for multi-dwelling housing

(a) Dwellings

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

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		 	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below; (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		  	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".			
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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: (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.	✓	✓	✓
(i) The applicant must show on The plans accompanying The development application for The proposed development, The locations of ceiling fans set out in The Assessor Certificate.	✓		
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		✓	

3. Commitments for single dwelling houses

(a) Dwellings

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

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below; (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓ ✓ ✓	✓
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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: (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.	✓	✓	✓
(i) The applicant must show on The plans accompanying The development application for The proposed development, The locations of ceiling fans set out in The Assessor Certificate.	✓		
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		✓	

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

(b) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	4 star (> 6 but <= 7.5 L/min)	4 star	5 star	no common laundry facility

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

Central energy systems	Type	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 10 peak kW
Other	Building management system installed?: yes	-

Notes

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

Legend

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