BASIX[°]Certificate

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

Multi Dwelling

Certificate number: 1377657M_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 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 1377657M lodged with the consent authority or certifier on 17 May 2023 with application PAN-325178.

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 Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Wednesday, 27 November 2024 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary	
Project name	20 Heradale Pde SP59 _02
Street address	20 HERADALE PARADE BATEMANS BAY 2536
Local Government Area	EUROBODALLA
Plan type and plan number	Deposited Plan 1135117
Lot no.	1
Section no.	-
No. of residential flat buildings	3
No. of units in residential flat buildings	60
No. of multi-dwelling houses	0
No. of single dwelling houses	0
Project score	
Water	V 40 Target 40
Thermal Comfort	Pass Target Pass
Energy	✓ 30 Target 30

Certificate Prepared by

Name / Company Name: Gradwell Consulting

ABN (if applicable): 68872791784

BASIX Department of Planning, Housing and Infrastructure

www.basix.nsw.gov.au

Version: 3.0 / DARWINIA_03_01_0

Description of project

Project address Project name 20 Heradale Pde SP59 _02 20 HERADALE PARADE BATEMANS BAY Street address 2536 Local Government Area EUROBODALLA Plan type and plan number Deposited Plan 1135117 Lot no. 1 Section no. Project type No. of residential flat buildings 3 No. of units in residential flat buildings 60 0 No. of multi-dwelling houses 0 No. of single dwelling houses Site details 8410 Site area (m²) Roof area (m²) 2350 Non-residential floor area (m²) 0.00 Residential car spaces 91 0 Non-residential car spaces

Common area landscape 440 Common area lawn (m²) Common area garden (m²) 4000.00 Area of indigenous or low water use 0.00 species (m²) Assessor details and thermal loads Assessor number DMN/12/1451 Certificate number 0008585330 18 Climate zone No Ceiling fan in at least one bedroom Ceiling fan in at least one living room No orother conditioned area **Project score** Water Target 40 40 **Thermal Comfort** Target Pass Pass Energy 4 30 Target 30

Description of project

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

Residential flat buildings - Building A, 20 dwellings, 4 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)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
A101	3	112	0.00	0.00	0.00	A102	3	134	0.00	0.00	0.00	A103	3	143	0.00	0.00	0.00	A104	2	115	0.00	0.00	0.00
A105	4+	171	0.00	0.00	0.00	A201	3	112	0.00	0.00	0.00	A202	3	134	0.00	0.00	0.00	A203	3	143	0.00	0.00	0.00
A204	2	115	0.00	0.00	0.00	A205	4+	171	0.00	0.00	0.00	A301	3	112	0.00	0.00	0.00	A302	3	134	0.00	0.00	0.00
A303	3	143	0.00	0.00	0.00	A304	2	115	0.00	0.00	0.00	A305	4+	171	0	0	0	AG01	1	51	0.00	0.00	0.00
AG02	1	73	0.00	0.00	0.00	AG03	3	143	0.00	0.00	0.00	AG04	3	143	0.00	0.00	0.00	AG05	3	118	0.00	0.00	0.00

Residential flat buildings - Building B, 21 dwellings, 4 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)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B101	3	132	0.00	0.00	0.00	B102	2	115	0.00	0.00	0.00	B103	3	143	0.00	0.00	0.00	B104	3	107	0.00	0.00	0.00
B105	3	112	0.00	0.00	0.00	B106	3	112	0.00	0.00	0.00	B201	3	132	0.00	0.00	0.00	B202	2	115	0.00	0.00	0.00
B203	3	143	0.00	0.00	0.00	B204	3	107	0.00	0.00	0.00	B205	3	112	0.00	0.00	0.00	B206	3	112	0.00	0.00	0.00
B301	3	132	0.00	0.00	0.00	B302	2	115	0.00	0.00	0.00	B303	2	115	0.00	0.00	0.00	B304	3	128	0.00	0.00	0.00
B305	4+	180	0.00	0.00	0.00	BG01	3	94	0.00	0.00	0.00	BG02	3	143	0.00	0.00	0.00	BG03	3	117	0.00	0.00	0.00
BG04	3	117	0.00	0.00	0.00																		

Residential flat buildings - Building C, 19 dwellings, 4 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)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms		Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
C101	3	133	0	0	0	C102	3	136	0	0	0	C103	2	107	0	0	0	C104	3	132	0	0	0
C105	3	132	0	0	0	C106	3	123	0	0	0	C201	3	133	0	0	0	C202	3	130	0	0	0
C203	3	132	0	0	0	C204	3	132	0	0	0	C205	3	123	0	0	0	C301	3	133	0	0	0
C302	3	123	0	0	0	CG01	2	110	0	0	0	CG02	3	153	0	0	0	CG03	2	126	0	0	0
CG04	3	157	0	0	0	CG05	2	119	0	0	0	CG06	3	123	0	0	0						

Description of project

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

Common areas of the development (non-building specific)

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Basement 1 Carpark	2930	Main switch room	17	Plant room	48
Mech Plant	19	Comms room	19	Hyd pump room	18
Fire pump room	31	Storage room	153		

Common areas of unit building - Building A

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Lift car (No. 1)	0.00	OSD Tank A	17	A GF lobby	36
A L1/L2/L3 lobby	92				-

Common areas of unit building - Building B

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Lift car (No. 2)	0.00	Waste room	50	OSD Tank B	48
B GF lobby	48	B L1/L2/L3 lobby	100		

Common areas of unit building - Building C

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Lift car (No. 3)	0.00	OSD Tank C	13	WC Roof C	18
Gym	60	C GF lobby	51	C L1/L2/L3 lobby	124

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building A

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Comfort

(b) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for Residential flat buildings - Building B

(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 - Building C

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Comfort

(b) Common areas and central systems/facilities

(i) Water

(ii) Energy

4. Commitments for single dwelling houses

5. Commitments for multi-dwelling houses

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

(a) 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 carriedout. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

1. Commitments for Residential flat buildings - Building A

(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		✓	 Image: A set of the set of the
(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.		✓	 Image: A second s
(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.	~	~	~

			Fixture	25		Appli	ances		Indivi	idual pool			ndividual spa	a
Dwelling no.	All shower- heads	All toilet flushing systems		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
	4 star (> 6 but <= 7.5 L/min)	4 star	4 star	4 star		not specified	4 star	-	-	-	-	-	-	-

			Alternative water sou	rce					
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connect (s)		Laundry connection	Pool top- up	Spa top-up
All dwellings	Central water tank (No. 1)	See central systems	See central systems	no	yes	n	10	no	no
(ii) Energy						Show DA pla		w on CC/CDC s & specs	Certifier check

	DA plans		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.	>	~	~

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:			1
(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:	1		1
(aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		✓	
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		~	~
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		_	

	Hot water	Bathroom ventilation system		Kitchen venti	lation system	Laundry ventilation system		
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control	
All dwellings		individual fan, ducted to façade or roof		individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off	

	Cooling		Hea	Heating		Artificial lighting						Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitchei	
A205	1-phase airconditioning / 2.5 star (old label)	1-phase airconditioning / 2.5 star (old label)	1-phase airconditioning / 2.5 star (old label)		4(dedicated)	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	yes	
AG03	1-phase airconditioning /	1-phase airconditioning /	1-phase airconditioning /		3(dedicated)	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	1	no	

	Coo	ling	Hea	ting		Artificial lighting						Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroon	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitche	
	2.5 star (old label)	2.5 star (old label)	2.5 star (old label)	2.5 star (old label)									
A105, A305	1-phase airconditioning / 2.5 star (old label)	· · · ·	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no				
AG01, AG02	1-phase airconditioning / 2.5 star (old label)	1(dedicated)	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no				
A104, A204, A304	1-phase airconditioning / 2.5 star (old label)	2(dedicated)	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no				
All other dwellings	1-phase airconditioning / 2.5 star (old label)	3(dedicated)	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no				

	Individual p	ool	Individual s	ра	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
A305	-	-	-	-	gas cooktop & electric oven	not specified	no	3 star	not specified	not specified	no	no
All other dwellings	-	-	-	-	gas cooktop & electric oven	not specified	no	3 star	not specified	not specified	no	no

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.	~		
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.		~	
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		~	~
(g) Where there is an in-slab heating or cooling system, the applicant must:	~	~	~
(aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or			
(bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.			
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	~	~	~

		Thermal loads
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)
A101	50.9	15.6
A102	69.7	30.8
A103	36.4	27.2
A104	41.9	24
A105	52.3	20.6
A201	53.3	15.2
A202	42.2	31.9
A203	30.5	29

		Thermal loads
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)
A204	34.5	26.8
A205	48.5	21.7
A301	61.2	18.2
A302	53.8	33
A303	35.2	33.6
A304	34.3	28.5
A305	41.8	25.4
AG01	81.9	15.1
AG02	84.1	13.1
AG03	64.7	21.4
AG04	70.5	15.2
All other dwellings	71.3	12.1

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(b) Common areas and central systems/facilities

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		~	>
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	~	~	~
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	~	~	
(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	no common facility	4 star	4 star	no common laundry facility
areas				

(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 car (No. 1)	-	-	light-emitting diode	connected to lift call button	no		
OSD Tank A	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no		
A GF lobby	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	no		
A L1/L2/L3 lobby	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	no		

Central energy systems	Туре	Specification
Lift (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 5

2. Commitments for Residential flat buildings - Building B

(a) Dwellings

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

	Fixtures		Appli	liances Individual pool			Individual spa							
Dwelling no.	All shower- heads	All toilet flushing systems		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 (> 6 but <= 7.5 L/min)	4 star	4 star	4 star		not specified	4 star	-	-	-	-	-	-	-

			Alter	native water sou	irce					
Dwelling no.	Alternative water supply systems	Size	Configuration		Landscape connection	Toilet connec (s)	tion c	Spa top-up		
ll dwellings	Central water tank (No. 1)	See central systems	See central systems		no	yes	n	0	no	no
ii) Energy							Show DA pla		w on CC/CDC s & specs	Certifier check
(a) The applica	ant must comply with the con	nmitments listed	below in carrying out the developm	ent of a dwelling	listed in a table	below.				
supplied by	y that system. If the table spe	ecifies a central h	ed for the dwelling in the table belo ot water system for the dwelling, th water is supplied by that central sy	en the applicant i			~		~	~
			d laundry of the dwelling, the ventile the operation control specified for		cified for that ro	om in			~	~
headings c cooling or such areas	of the "Cooling" and "Heating heating system is specified ir	" columns in the the table for "Li	n/s specified for the dwelling under table below, in/for at least 1 living/b ving areas" or "Bedroom areas", the conditioning system, then the system	edroom area of tl en no systems ma	he dwelling. If n ay be installed i	io n any			~	~
e) This comm the table b lighting" fo specified fo	itment applies to each room elow (but only to the extent s r each such room in the dwe	specified for that i Iling is fluorescer then the light fittir	relling which is referred to in a head room or area). The applicant must e it lighting or light emitting diode (LE ngs in that room or area must only l	ensure that the "p D) lighting. If the	rimary type of a term "dedicated	artificial d" is			~	~
the table b			elling which is referred to in a head oom or area). The applicant must e				~		~	~
(g) This comm	itment applies if the applican	nt installs a water	heating system for the dwelling's p	ool or spa. The a	applicant must:					
			ndividual Pool" column of the table cant must install a timer, to control t			nstall			 Image: A second s	
			dividual Spa" column of the table b ant must install a timer to control th		vely must not in	stall			 Image: A second s	
a										

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

	Hot water	Bathroom ventilation system		Kitchen venti	lation system	Laundry ventilation system		
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control	
All dwellings	Central hot water system (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	

	Coc	oling	Hea	ting			Artific	ial lighting			Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroon	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
B305	1-phase airconditioning / 2.5 star (old label)		1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no			
BG02	1-phase airconditioning / 2.5 star (old label)		1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	1	no			
B102, B202, B302, B303	1-phase airconditioning / 2.5 star (old label)		1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no			

	Coo	ling	Heating			Artificial lighting						
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroon	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitche
dwellings	0		1-phase airconditioning / 2.5 star (old label)	•	1 ° 1	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no

	Individual p	ool	Individual s	ра	Appliance			s & 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	not specified	no	3 star	not specified	not specified	no	no

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.	~		
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.		~	
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		~	~

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

	Therm	al loads
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)
B101	64.9	13.6
B102	19.3	28.6
B103	49.8	28.2
B104	42.7	10.5
B105	26.5	11.2
B106	59.3	13
B201	66.5	17.1
B202	23.3	33.5
B203	19.4	31.3
B204	23.7	14
B205	34.6	13
B206	65.9	15.6
B301	69.5	19.1
B302	28.8	34.4
B303	27	33.1
B304	10.9	33
B305	43.2	29.8
BG01	70.2	27.4
BG02	52.4	24.4
BG03	39.5	11.8
All other dwellings	74.9	13.3

(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	no common facility	4 star	4 star	no common laundry facility
areas				

(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 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			
Waste room	ventilation exhaust only	-	light-emitting diode	manual on / manual off	no			
OSD Tank B	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no			
B GF lobby	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	no			
B L1/L2/L3 lobby	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	no			

Central energy systems	Туре	Specification
Lift (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 5

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3. Commitments for Residential flat buildings - Building C

(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 o	out the development of a	dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation the "Indigenous species" column of the table below, as private landscaping to be contained within the "Area of garden and lawn" for the dwelling specif	for that dwelling. (This	area of indigenous vegetation is	>	~	
(c) If a rating is specified in the table below for a fixture or appliance to be insta such fixture and appliance meets the rating specified for it.	alled in the dwelling, the	applicant must ensure that each		>	>
(d) The applicant must install an on demand hot water recirculation system whi where indicated for a dwelling in the "HW recirculation or diversion" column		er use throughout the dwelling,		>	>
(e) The applicant must install:					
(aa) a hot water diversion system to all showers, kitchen sinks and all b the "HW recirculation or diversion" column of the table below; and		ere indicated for a dwelling in		✓	~
(bb) a separate diversion tank (or tanks) connected to the hot water diversion tank to all toilets in the dwelling.	rersion systems of at lea	st 100 litres. The applicant must		✓	 Image: Image: Ima
(e) The applicant must not install a private swimming pool or spa for the dwellin table below.	ng, with a volume excee	ding that specified for it in the	>	~	
(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 sy the table below. Each system must be configured to collect run-off from the other alternative water supply system), and to divert overflow as specified.	e areas specified (exclue	ing any area which supplies any	~	~	~
Fixtures	Appliances	Individual pool	DA plans plans & specs below.		pa

	Fixtures			Appli	ances	Individual pool				Individual spa				
Dwelling no.	All shower- heads	All toilet flushing systems		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
	4 star (> 6 but <= 7.5 L/min)	4 star	4 star	4 star		not specified	4 star	-	-	-	-	-	-	-

			A	ternative water sou	irce					
Dwelling no.	Alternative water supply systems	Size	Configuration		Landscape connection	Toilet connec (s)		ndry nection	Pool top- up	Spa top-up
ll dwellings	No alternative water supply	-	-		-	-	-		-	-
ii) Energy							Show on DA plans		w on CC/CDC s & specs	Certifier check
(a) The applica	ant must comply with the co	mmitments lis	ed below in carrying out the develo	pment of a dwelling	listed in a table	below.				
supplied by	y that system. If the table sp	pecifies a centr	ecified for the dwelling in the table b al hot water system for the dwelling hot water is supplied by that centra	, then the applicant			>		 Image: A second s	~
			and laundry of the dwelling, the ve have the operation control specified		cified for that ro	om in			`	~
headings c cooling or such areas	of the "Cooling" and "Heating heating system is specified	g" columns in i	stem/s specified for the dwelling ur he table below, in/for at least 1 livir "Living areas" or "Bedroom areas" n air conditioning system, then the	ng/bedroom area of the systems may be a second to the system of the system second to	he dwelling. If n ay be installed i	o n any			~	~
the table b lighting" fo specified fo	elow (but only to the extent r each such room in the dwo	specified for the specified for the specified for the specified of the spe	e dwelling which is referred to in a h nat room or area). The applicant mi cent lighting or light emitting diode fittings in that room or area must o	ust ensure that the "p (LED) lighting. If the	orimary type of a term "dedicated	artificial d" is			~	~
the table b			dwelling which is referred to in a h nat room or area). The applicant m				~		~	~
(g) This comm	nitment applies if the applica	int installs a wa	ater heating system for the dwelling	's pool or spa. The a	applicant must:					
			e "Individual Pool" column of the ta oplicant must install a timer, to cont			nstall			~	
			"Individual Spa" column of the tab plicant must install a timer to contro		vely must not in	stall			.	
	ny system for the spa). If sp	oomoa, mo ap							-	

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

	Hot water	Bathroom ven	tilation system	Kitchen venti	lation system	Laundry ventilation system		
Dwelling no.	Hot water system Each bathroom Operation control		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	

	Coo	ling	Hea	ting			Artific	ial lighting			Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroon	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
CG01	1-phase airconditioning / 2.5 star (old label)	· · ·	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	yes			
CG05	1-phase airconditioning / 2.5 star (old label)		1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	1	no			
C103, CG03	1-phase airconditioning / 2.5 star (old label)	· · ·	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no			
C105, C204	1-phase airconditioning /	1-phase airconditioning /	1-phase airconditioning /	1-phase airconditioning /		1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	1	no

	Cooling		Heating		Artificial lighting							Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroon	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitche	
	2.5 star (old label)	2.5 star (old label)	2.5 star (old label)	2.5 star (old label)									
C101, C201, C301	1-phase airconditioning / 2.5 star (old label)	5	1-phase airconditioning / 2.5 star (old label)	1-phase airconditioning / 2.5 star (old label)	3(dedicated)	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	yes	
	1-phase airconditioning / 2.5 star (old label)	•	1-phase airconditioning / 2.5 star (old label)	1-phase airconditioning / 2.5 star (old label)	3(dedicated)	1(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no	

	Individual p	ool	Individual s	ра	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	-	no	3 star	-	-	no	no

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.	>		

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

		Thermal loads
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)
C101	62.5	23.1
C102	77.1	36
C103	16.5	14.3
C104	14.3	11.7
C105	18	32.1
C106	63.9	22.5
C201	64.4	22.3
C202	54.1	20.2
C203	43.2	16.3
C204	57.2	20
C205	65.8	21.7
C301	79.2	25.1
C302	78	23.3
CG01	60.4	31.7
CG02	43.4	32.8
CG03	15.8	21.4

	Thermal loads					
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)				
CG04	16.4	23				
CG05	17.9	23.7				
All other dwellings	77.2	15.3				

(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	no common facility	4 star	4 star	no common laundry facility
areas				

(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 car (No. 3)	-	-	light-emitting diode	connected to lift call button	no	
OSD Tank C	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no	
WC Roof C	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no	
Gym	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	no	
C GF lobby	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	no	
C L1/L2/L3 lobby	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	no	

Central energy systems	Туре	Specification
Lift (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 5

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

(a) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	4 star	4 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for)
Swimming pool (No. 1)	Volume: 135.00 kLs	Location: Other Pool shaded: no	-
Fire sprinkler system (No. 1)	-	-	-
Fire sprinkler system (No. 2)	-		-

Central systems	Size	Configuration	Connection (to allow for)
Central water tank - rainwater or stormwater (No. 1)	10000.00	 To collect run-off from at least: 2000 square metres of roof area of buildings in the development 0.00 square metres of impervious area in the development 0.00 square metres of garden/lawn area in the development 0.00 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system). 	 irrigation of 4400 square metres of common landscaped area on the site car washing in 3 car washing bays on the site

(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
Basement 1 Carpark	ventilation (supply + exhaust)	carbon monoxide monitor + 2-speed fan	light-emitting diode	daylight sensor and motion sensor	no
Main switch room	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no
Plant room	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no
Mech Plant	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no
Comms room	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no
Hyd pump room	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no
Fire pump room	ventilation exhaust only	thermostatically controlled	light-emitting diode	manual on / manual off	no
Storage room	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	manual on / manual off	no

Central energy systems	Туре	Specification
Swimming pool (No. 1)	Heating source: gas	Pump controlled by timer: yes
Central hot water system (No. 1)	gas instantaneous	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.75 (~32 mm); (b) Piping internal to building: R0.75 (~32 mm)
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 58 peak kW
Other	-	-

Notes

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

Legend

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