

BASIX™ Certificate

Building Sustainability Index

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Multi Dwelling

Certificate number: 1846179M

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: Wednesday, 13 May 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-MQR6XX-01.

Project summary

Project name	27 to 33 Middleton Avenue, Castle Hill
Street address	27 MIDDLETON AVENUE CASTLE HILL 2154
Local Government Area	THE HILLS SHIRE
Plan type and plan number	Deposited Plan 249973
Lot No.	209
Section no.	-
No. of residential flat buildings	1
Residential flat buildings: no. of dwellings	109
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

Project score

Water	✓ 41	Target 40
Thermal Performance (Simulation method)	✓ Pass	Target Pass
Energy	✓ 62	Target 60
Materials	✓ 7	Target n/a

Certificate Prepared by

Name / Company Name: Certified Energy

ABN (if applicable): 95 164 564 210

Description of project

Project address	
Project name	27 to 33 Middleton Avenue, Castle Hill
Street address	27 MIDDLETON AVENUE CASTLE HILL 2154
Local Government Area	THE HILLS SHIRE
Plan type and plan number	Deposited Plan 249973
Lot No.	209
Section no.	-
Project type	
No. of residential flat buildings	1
Residential flat buildings: no. of dwellings	109
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	3791
Roof area (m²)	1127
Non-residential floor area (m²)	0
Residential car spaces	171
Non-residential car spaces	2

Common area landscape		
Common area lawn (m²)	0	
Common area garden (m²)	0	
Area of indigenous or low water use species (m²)	0	
Assessor details and thermal loads		
Assessor number	10056	
Certificate number	HR-MQR6XX-01	
Climate zone	56	
Project score		
Water	✓ 41	Target 40
Thermal Performance (Simulation method)	✓ Pass	Target Pass
Energy	✓ 62	Target 60
Materials	✓ 7	Target n/a

Description of project

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

Residential flat buildings - 27 to 33 Middleton Avenue, Castle Hill, 109 dwellings, 14 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)
U001	3	112.5	0	0	0
U005	3	121.7	0	0	0
U1002	2	76.8	0	0	0
U1006	1	60.7	0	0	0
U102	2	69.8	0	0	0
U106	1	49	0	0	0
U1103	3	124.9	0	0	0
U1301	1	58.3	0	0	0
U202	2	79	0	0	0
U206	3	115.8	0	0	0
U210	3	91.8	0	0	0
U301	2	98.3	0	0	0
U305	2	102.9	0	0	0
U309	2	80.8	0	0	0
U313	2	86.7	0	0	0
U404	1	58.3	0	0	0
U408	2	94.3	13.2	0	0
U503	2	92.6	12.1	0	0
U507	3	96.1	0	0	0
U602	2	76.9	0	0	0
U606	4+	124.1	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)
U002	3	112.5	0	0	0
U006	3	91.4	0	0	0
U1003	2	85.1	12.2	0	0
U1007	2	73.1	0	0	0
U103	3	105.6	0	0	0
U107	2	112.5	0	0	0
U1201	1	58.3	0	0	0
U1302	3	150	0	0	0
U203	2	78.2	0	0	0
U207	2	84.4	9.9	0	0
U211	2	78.3	0	0	0
U302	2	79	0	0	0
U306	3	115.8	0	0	0
U310	3	91.8	0	0	0
U401	3	106.2	12.1	0	0
U405	2	87.3	10.4	0	0
U409	2	83.9	5.1	0	0
U504	1	58.3	0	0	0
U508	2	94.3	13.2	0	0
U603	2	92.6	12.1	0	0
U607	3	96.1	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)
U003	3	112.5	0	0	0
U007	3	134.2	0	0	0
U1004	3	89.1	4.7	0	0
U1008	2	93.7	0	0	0
U104	1	68.9	0	0	0
U1101	1	57.8	0	0	0
U1202	3	150	0	0	0
U1303	3	125.3	0	0	0
U204	2	123.3	0	0	0
U208	2	80.9	0	0	0
U212	3	105.4	0	0	0
U303	2	78.2	0	0	0
U307	2	84.4	9.9	0	0
U311	2	78.3	0	0	0
U402	2	76.9	0	0	0
U406	4+	124.1	0	0	0
U501	3	106.2	12.1	0	0
U505	2	87.3	10.4	0	0
U509	2	83.9	5.1	0	0
U604	1	58.3	0	0	0
U608	2	94.3	13.2	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)
U004	3	112.5	0	0	0
U1001	3	109	0	0	0
U1005	3	113.7	0	0	0
U101	2	84.4	0	0	0
U105	2	78.5	0	0	0
U1102	3	135.6	0	0	0
U1203	3	125.3	0	0	0
U201	2	98.3	0	0	0
U205	2	102.9	0	0	0
U209	2	80.8	0	0	0
U213	2	86.7	0	0	0
U304	1	48.8	9.9	0	0
U308	2	80.9	0	0	0
U312	3	105.4	0	0	0
U403	2	92.6	12.1	0	0
U407	3	96.1	0	0	0
U502	2	76.9	0	0	0
U506	4+	124.1	0	0	0
U601	3	106.2	12.1	0	0
U605	2	87.3	10.4	0	0
U609	2	83.9	5.1	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
U701	3	106.2	12.1	0	0
U705	2	87.3	10.4	0	0
U709	2	83.9	5.1	0	0
U804	3	89.1	4.7	0	0
U808	2	93.7	0	0	0
U904	3	89.1	4.7	0	0
U908	2	93.7	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
U702	2	76.9	0	0	0
U706	4+	124.1	0	0	0
U801	3	109	0	0	0
U805	3	113.7	0	0	0
U901	3	109	0	0	0
U905	3	113.7	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
U703	2	92.6	12.1	0	0
U707	3	96.1	0	0	0
U802	2	76.8	0	0	0
U806	1	60.7	0	0	0
U902	2	76.8	0	0	0
U906	1	60.7	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
U704	1	58.3	0	0	0
U708	2	94.3	13.2	0	0
U803	2	85.1	12.2	0	0
U807	2	73.1	0	0	0
U903	2	85.1	12.2	0	0
U907	2	73.1	0	0	0

Description of project

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

Common areas of unit building - 27 to 33 Middleton Avenue, Castle Hill

Common area	Floor area (m ²)	Common area	Floor area (m ²)	Common area	Floor area (m ²)
Car park area B3	1935	Car park area B2	1905	Car park area B1	1820
Switch room	22	Bulky waste	12	South block bin room	39.7
FOGO 7 bins	11.5	FOGO 5 bins	6.2	North block bin room	26
Waste GF	105.1	Community room (No. 1)	75.1	Community room (No. 2)	32.5
Supply air B3	12.5	Supply air B2	12.5	Comms	19.2
Pump room	53.3	CW pump	16.3	Supply air GF	14.2
WC	5	Storage	6.2	Supply air B1	12.5
Store room	12	Ground floor lobby type (No. 1)	70.6	Hallway/lobby type L1	107
Hallway/lobby type L2	108.3	Hallway/lobby type L3	70.3	Hallway/lobby type L4	90.5
Hallway/lobby type L5	90.5	Hallway/lobby type L6	90.5	Hallway/lobby type L7	90.5
Hallway/lobby type L8	88.6	Hallway/lobby type L9	88.6	Hallway/lobby type L10	88.6
Hallway/lobby type L11	50.2	Hallway/lobby type L12	41.8	Hallway/lobby type L13	41.8
Lift bank (No. 2)	-	Lift bank (No. 3)	-		

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - 27 to 33 Middleton Avenue, Castle Hill

(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 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 - 27 to 33 Middleton Avenue, Castle Hill

(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
suspended floor above open subfloor, frame: suspended concrete slab	110.9	fibreglass batts or roll	-
suspended floor above garage, frame: suspended concrete slab	688.5	fibreglass batts or roll	-
concrete slab on ground, frame:	2059.9	-	none
floors above habitable rooms, frame: suspended concrete slab	14756.8	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	brick veneer, frame: light steel frame	2028	-	fibreglass batts or roll

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 2	framed (fibre cement sheet or boards),frame:light steel frame	2051	-	fibreglass batts or roll

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	7311	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
-	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: light steel frame	1127	-	fibreglass batts or roll

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)
-	2927	-	2927	-	-	-	-

(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	5 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	not specified	not specified	-	-	-	-	-	-	-

	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	manual switch on/off	individual fan, ducted to façade	manual switch on/off	individual fan, ducted to façade	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
U1005, U104, U1202	1-phase airconditioning - ducted / 3.5 star (average zone)	1-phase airconditioning - ducted / 3.5 star (average zone)	1-phase airconditioning - ducted / 3.5 star (average zone)	1-phase airconditioning - ducted / 3.5 star (average zone)	2	no
U1004, U1006, U103, U105, U1101, U1201, U1203, U1303, U201, U602, U702, U802, U903	1-phase airconditioning - ducted / 3.5 star (average zone)	1-phase airconditioning - ducted / 3.5 star (average zone)	1-phase airconditioning - ducted / 3.5 star (average zone)	1-phase airconditioning - ducted / 3.5 star (average zone)	1	no
All other dwellings	1-phase airconditioning - ducted / 3.5 star (average zone)	1-phase airconditioning - ducted / 3.5 star (average zone)	1-phase airconditioning - ducted / 3.5 star (average zone)	1-phase airconditioning - ducted / 3.5 star (average zone)	0	no

	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	-	-	-	-	-	gas cooktop & electric oven	-	-	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.	✓		

(iii) Thermal Performance	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adjusted total load (in MJ/m²/yr)
U001	19.5	8.9	28.400
U002	13.3	9.9	23.200
U003	12.7	10.1	22.800
U004	12.4	9.8	22.200
U005	22.3	6.5	28.800
U006	30.3	2.4	32.700
U007	32.2	1.9	34.100
U1001	7.9	10.4	18.300
U1002	13.4	9.8	23.200
U1003	15.0	16.6	31.600
U1004	19.8	11.4	31.200
U1005	16.5	10.7	27.200
U1006	10.8	9.2	20.000
U1007	18.4	11.6	30.000
U1008	25.2	12	37.200
U101	10.7	8.3	19.000
U102	31.6	4.8	36.400
U103	26.9	10.3	37.200
U104	30	6.9	36.900
U105	27.6	8.8	36.400
U106	17	8.6	25.600
U107	25	6.4	31.400
U1101	30.1	5.6	35.700
U1102	16.7	7.3	24.000
U1103	27	9.8	36.800
U201	13.6	14.4	28.000

	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)
U202	11	9.7	20.700
U203	12.8	11.1	23.900
U204	15.8	13	28.800
U205	20.9	6.6	27.500
U206	7.5	9	16.500
U207	15.1	8.7	23.800
U208	6.5	13.5	20.000
U209	11.6	14.6	26.200
U210	11	17.1	28.100
U211	28.6	8	36.600
U212	21.7	5.1	26.800
U213	22.1	6.6	28.700
U301	12.3	11.6	23.900
U302	14.2	8	22.200
U303	15.2	8.9	24.100
U304	10.9	16.2	27.100
U305	25.2	6.2	31.400
U306	10.7	7	17.700
U307	18	7	25.000
U308	8.6	10.5	19.100
U309	14	11.1	25.100
U310	13.5	13	26.500
U311	32.1	5.3	37.400
U312	24.8	4.9	29.700
U313	25.5	6	31.500
U405	10.8	10.4	21.200
U406	19.1	4.2	23.300
U407	11	8	19.000
U408	16.1	7.5	23.600
U409	28.6	9.2	37.800
U505	10.7	10.4	21.100

	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)
U506	19.4	4.1	23.500
U507	11.4	7.9	19.300
U508	16.8	7.4	24.200
U509	26.8	9.1	35.900
U601	8.2	6.4	14.600
U602	12.9	8.7	21.600
U603	13.5	15.9	29.400
U604	23	9	32.000
U605	14	12.6	26.600
U606	19.8	4.3	24.100
U607	11.8	7.9	19.700
U608	17.2	7.1	24.300
U609	27.2	9.1	36.300
U701	8.3	6.4	14.700
U702	13.1	8.6	21.700
U703	13.8	16	29.800
U704	23.3	8.9	32.200
U705	14.2	15.1	29.300
U706	20.1	4.3	24.400
U707	12	7.8	19.800
U708	17.6	7	24.600
U709	27.6	9.2	36.800
U801	7.5	10.4	17.900
U802	12.8	10.3	23.100
U803	14.6	16.8	31.400
U804	19.2	11.6	30.800
U805	16	10.6	26.600
U806	10.3	9.5	19.800
U807	17.8	11.7	29.500
U808	24.6	12.1	36.700
U901	7.7	10.3	18.000

	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)
U902	13.1	9.9	23.000
U903	14.8	16.5	31.300
U904	19.5	11.6	31.100
U905	16.3	11	27.300
U906	10.5	9.5	20.000
U907	18.1	11.6	29.700
U908	24.9	12	36.900
U1201, U1301	18.7	10.6	29.300
U1202, U1302	10.3	11.9	22.200
U1203, U1303	26.3	10.7	37.000
U401, U501	7.6	6.5	14.100
U402, U502	12	9.2	21.200
U403, U503	13.2	16.9	30.100
All other dwellings	21.8	9	30.800

(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	no common facility	no common facility	no common facility	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
Car park area B3	no mechanical ventilation	-	no artificial lighting	-	no
Car park area B2	no mechanical ventilation	-	no artificial lighting	-	no
Car park area B1	no mechanical ventilation	-	no artificial lighting	-	no
Switch room	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Bulky waste	ventilation exhaust only	-	light-emitting diode	manual on / manual off	no
South block bin room	ventilation exhaust only	-	light-emitting diode	manual on / manual off	no
FOGO 7 bins	ventilation exhaust only	-	light-emitting diode	manual on / manual off	no
FOGO 5 bins	ventilation exhaust only	-	light-emitting diode	manual on / manual off	no
North block bin room	ventilation exhaust only	-	light-emitting diode	manual on / manual off	no
Waste GF	ventilation exhaust only	-	light-emitting diode	manual on / manual off	no
Community room (No. 1)	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Community room (No. 2)	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Supply air B3	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Supply air B2	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Comms	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Pump room	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
CW pump	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Supply air GF	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
WC	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Storage	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Supply air B1	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Store room	ventilation exhaust only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Ground floor lobby type (No. 1)	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L1	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L2	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L3	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L4	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L5	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L6	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no

	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
Hallway/lobby type L7	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L8	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L9	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L10	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L11	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L12	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	no
Hallway/lobby type L13	air conditioning system	none i.e., continuous	light-emitting diode	manual on / manual off	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

Central energy systems	Type	Specification
Lift bank (No. 2)	gearless traction with V V V F motor and regenerative drive	Number of levels with apartments served by a lift: 11 number of levels from the bottom of the lift shaft to the top of the lift shaft: 15 number of lifts: 2 lift load capacity: <1001 kg
Lift bank (No. 3)	gearless traction with V V V F motor and regenerative drive	Number of levels with apartments served by a lift: 14 number of levels from the bottom of the lift shaft to the top of the lift shaft: 17 number of lifts: 2 lift load capacity: <1001 kg
Central hot water system (No. 1)	solar – gas boosted	Solar collector area (minimum, in square metres): 100 Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)

2. 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	no common facility	no common facility	no common facility	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): 15 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 fulfilment it is required to monitor in relation to the building or part, has been fulfilled).