

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

Multi Dwelling

Certificate number: 1741028M

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

Secretary

Date of issue: Friday, 22 March 2024

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



BASIX

Project summary		
Project name	46-52 Court Road Fairfield NSW (Pa	art 2)
Street address	46-52 COURT ROAD FAIRFIELD 2	2165
Local Government Area	FAIRFIELD	
Plan type and plan number	Deposited Plan DP1277808	
Lot no.	100	
Section no.	-	
No. of residential flat buildings	4	
Residential flat buildings: no. of dwellings	133	
Multi-dwelling housing: no. of dwellings	0	
No. of single dwelling houses	0	
Project score		
Water	✓ 41	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 58	Target 58
Materials	· -100	Target n/a

Certificate	Prepared by
Oci tilloate	I ICPAICA DY

Name / Company Name: BONNEFIN CONSULTING PTY LTD

ABN (if applicable): 95164564210

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 1/48

Description of project

Project address	
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Street address	46-52 COURT ROAD FAIRFIELD 2165
Local Government Area	FAIRFIELD
Plan type and plan number	Deposited Plan DP1277808
Lot no.	100
Section no.	-
Project type	
No. of residential flat buildings	4
Residential flat buildings: no. of dwellings	133
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	4800
Roof area (m²)	2840
Non-residential floor area (m²)	1397.86
Residential car spaces	384
Non-residential car spaces	57

Common area landscape						
Common area lawn (m²)						
Common area garden (m²)	0					
Area of indigenous or low water use species (m²)	0					
Assessor details and therma	al loa	ds				
Assessor number	10056					
Certificate number	0007782350					
Climate zone	28					
Project score						
Water	>	41	Target 40			
Thermal Performance	>	Pass	Target Pass			
Energy	~	58	Target 58			
Materials	~	-100	Target n/a			

Version: 4.01 / EUCALYPTUS_03_01_0

Description of project

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

Residential flat buildings - Building A, 49 dwellings, 10 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)
10A	2	74.1	0	0	0
14A	2	70.9	0	0	0
18A	2	77.3	0	0	0
21A	2	77.3	0	0	0
258	3	100.8	0	0	0
261	2	65.6	0	0	0
265	2	65.6	0	0	0
269	2	71	0	0	0
283	3	99.5	0	0	0
2A	3	107.6	0	0	0
33A	1	49.4	0	0	0
5A	2	74.1	0	0	0
9A	2	74.1	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
11A	2	74.1	0	0	0
15A	2	71	0	0	0
19A	2	77.3	0	0	0
22A	2	77.3	0	0	0
259	1	100.8	0	0	0
262	1	55.4	0	0	0
266	2	65.6	0	0	0
26A	1	63.1	0	0	0
284	2	70.9	0	0	0
30A	1	58.4	0	0	0
34A	2	68.5	0	0	0
6A	1	72.7	0	0	0
		•			

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
12A	2	74.1	0	0	0
16A	2	77.3	0	0	0
1A	3	110	0	0	0
23A	1	61.1	5.7	0	0
25A	2	77.3	0	0	0
263	2	65.6	0	0	0
267	2	65.5	0	0	0
270	2	80	0	0	0
28A	2	71	0	0	0
31A	2	71.2	0	0	0
3A	2	73.2	0	0	0
7A	2	73.2	0	0	0
.,,		70.2			

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
13A	2	74.1	0	0	0
17A	2	77.3	0	0	0
20A	2	77.3	0	0	0
24A	2	77.3	0	0	0
260	2	65.6	0	0	0
264	2	65.6	0	0	0
268	2	65.5	0	0	0
27A	2	80	0	0	0
29A	1	60.9	0	0	0
32A	1	49.4	0	0	0
4A	2	74.1	0	0	0
8A	2	74.1	0	0	0

Department of Planning and Environment

Certificate No.: 1741028M

page 3/48

Residential flat buildings - Building B, 32 dwellings, 14 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)
223	1	55.4	0	0	0
227	2	81.2	0	0	0
48A	1	55.4	0	0	0
52A	2	81.2	0	0	0
56A	1	55.4	0	0	0
60A	2	81.2	0	0	0
64A	1	55.4	0	0	0
68A	2	81.2	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
224	2	85	0	0	0
228	2	74.9	0	0	0
49A	2	85	0	0	0
53A	2	74.9	0	0	0
57A	2	85	0	0	0
61A	2	74.9	0	0	0
65A	2	85	0	0	0
69A	2	74.9	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
225	2	83	0	0	0
229	2	75	0	0	0
50A	2	83	0	0	0
54A	2	75	0	0	0
58A	2	83	0	0	0
62A	2	75	0	0	0
66A	2	83	0	0	0
70A	2	75	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
226	1	54.2	0	0	0
230	2	79.4	0	0	0
51A	1	54.2	0	0	0
55A	2	79.4	0	0	0
59A	1	54.2	0	0	0
63A	2	79.4	0	0	0
67A	1	54.2	0	0	0
71A	2	79.4	0	0	0

Residential flat buildings - Building C, 32 dwellings, 14 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)
123	1	55.3	0	0	0
127	2	78.1	0	0	0
72A	1	55.3	0	0	0
76A	2	78.1	0	0	0
80A	1	55.3	0	0	0
84A	2	78.1	0	0	0
88A	1	55.3	0	0	0
92A	2	78.1	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
124	1	53.3	0	0	0
128	2	77.3	0	0	0
73A	1	53.3	0	0	0
77A	2	77.3	0	0	0
81A	1	53.3	0	0	0
85A	2	77.3	0	0	0
89A	1	53.3	0	0	0
93A	2	77.3	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
125	1	51.7	0	0	0
129	2	68.3	0	0	0
74A	1	51.7	0	0	0
78A	2	68.3	0	0	0
82A	1	51.7	0	0	0
86A	2	68.3	0	0	0
90A	1	51.7	0	0	0
94A	2	68.3	0	0	0

Certificate No.: 1741028M

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
126	1	53	0	0	0
130	2	77.8	0	0	0
75A	1	53	0	0	0
79A	2	77.8	0	0	0
83A	1	53	0	0	0
87A	2	77.8	0	0	0
91A	1	53	0	0	0
95A	2	77.8	0	0	0

Residential flat buildings - Building D, 20 dwellings, 10 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)
100A	3	124	0	0	0
104A	2	84.5	6.7	0	0
108A	2	99.6	6.7	0	0
20	2	72.4	3.6	0	0
96A	3	103	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
101A	3	103	0	0	0
105A	3	118.8	2	0	0
109A	2	84.5	6.7	0	0
21	2	99.6	6.7	0	0
97A	2	72.4	3.6	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
102A	2	72.4	3.6	0	0
106A	3	103	0	0	0
110A	3	118.8	2	0	0
34	2	84.5	4.1	0	0
98A	2	99.6	6.7	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
103A	2	99.6	6.7	0	0
107A	2	72.4	3.6	0	0
19	3	103	0	0	0
35	3	124	0	0	0
99A	2	84.5	84.5	0	0

Version: 4.01 / EUCALYPTUS_03_01_0

page 5/48

Description of project

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

Common areas of unit building - Building A

Common area	Floor area (m²)
Hallway/lobby Building A	290.5

Common areas of unit building - Building B

Common area	Floor area (m²)
Basement 1	4650
Garbage and Bin Room	248
Bicycle Parking	144

Common area	Floor area (m²)
Basement 2	4746
Pump Room	44
Ground floor lobby	100

Common area	Floor area (m²)
Basement 3	2876
Mechanical	64
Hallway/lobby Building B	176

Common areas of unit building - Building C

Common area	Floor area (m²)
Hallway/lobby Building C	144

Common areas of unit building - Building D

Common area	Floor area (m²)
Hallway/lobby Building D	169.2
Lift bank (No. 3)	-

Common area	Floor area (m²)
Lift bank (No. 1)	-
Lift bank (No. 4)	-

Version: 4.01 / EUCALYPTUS_03_01_0

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

Department of Planning and Environment

page 6/48

Schedule of BASIX commitments

- 1. Commitments for Residential flat buildings Building A
 - (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 Residential flat buildings Building B
 - (a) Buildings
 - (i) Materials
 - (b) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Performance
 - (c) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy
- 3. Commitments for Residential flat buildings Building C
 - (a) Buildings
 - (i) Materials
 - (b) Dwellings
 - (i) Water

Version: 4.01 / EUCALYPTUS_03_01_0

page 7/48

- (ii) Energy
- (iii) Thermal Performance
- (c) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy
- 4. Commitments for Residential flat buildings Building D
 - (a) Buildings
 - (i) Materials
 - (b) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Performance
 - (c) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy
- 5. 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

Department of Planning and Environment

BASIX

Version: 4.01 / EUCALYPTUS_03_01_0

Certificate No.: 1741028M

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) Buildings

BASIX

(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	
floors above habitable rooms, frame: suspended concrete slab	3583.1	-	none	
suspended floor above enclosed subfloor, frame: suspended concrete slab	290.5	-	none	

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	AAC veneer,frame:light steel frame	1766.3	none	fibreglass batts or roll

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Internal wall types				
Internal wall type	Construction type	Area (m2)	Insulation	
Internal wall type 1	plasterboard, frame:light steel frame	2516	fibreglass batts or roll	
Internal wall type 2	75 mm AAC panel, frame:light steel frame	4108	fibreglass batts or roll	
Internal wall type 3	200 mm AAC block, frame:light steel frame	620	fibreglass batts or roll	

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					
framed - metal roof, frame: light steel frame	506	foil backed blanket	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)
479.5	346.5	-	826	-	-	-	-

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 10/48

(b) Dwellings

BASIX

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	>	~	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		>	>
(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.	V	~	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		~	
(g) The pool or spa must be located as specified in the table.	V	~	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	>	~	~

			Fixture	es		Appli	ances		Indivi	dual pool			ndividual spa	a
Dwelling no.	All shower- heads	All toilet flushing systems	taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish- washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	3 star (> 7.5 but <= 9 L/min)	4 star	3 star	3 star	-	2.5 star	2.5 star	-	-	-	-	-	-	-

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 11/48

		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	-	-	-	-	-	-	-
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.		V	
(h) The applicant must install in the dwelling:			

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 12/48

(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		~	V
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		~	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		~	

	Hot water	Bathroom ven	tilation system	Kitchen venti	lation system	Laundry vent	ilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	electric instantaneous	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	ting	Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - non ducted / EER 3.5 - 4.0	1-phase airconditioning - non ducted / EER 3.5 - 4.0	1-phase airconditioning - non ducted / EER > 4.0	1-phase airconditioning - non ducted / EER > 4.0	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

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 13/48

(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.	V	~	V
(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.	V		
(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)
10A	30.2	33.3	63.500
11A	28.4	32.8	61.200
12A	25.4	32.5	57.900
13A	26.4	28.4	54.800

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 14/48

		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)						
14A	40.1	11	51.100						
15A	40	11.6	51.600						
16A	23.4	21.4	44.800						
19A	28.9	23.3	52.200						
1A	33.2	12.9	46.100						
20A	29.3	26.9	56.200						
21A	31.3	24.9	56.200						
22A	32.9	24.3	57.200						
23A	30.9	20.8	51.700						
24A	29.3	22.6	51.900						
258	23.5	11	34.500						
259	23.9	20.6	44.500						
25A	22.3	26.2	48.500						
260	23.1	23.5	46.600						
261	23.5	20.9	44.400						
262	30.3	14.4	44.700						
263	38.3	21.7	60.000						
264	30.6	22.4	53.000						
265	38.3	25.1	63.400						
266	47.9	17.6	65.500						
267	41.4	18.4	59.800						
268	32.4	18	50.400						
269	30.2	17.2	47.400						
26A	25.3	27.7	53.000						
270	40.1	11.3	51.400						
27A	30	12.5	42.500						
283	22.6	23.6	46.200						
284	39.7	11.4	51.100						
28A	52	9.1	61.100						
29A	31.7	37.4	69.100						
2A	21.5	16.1	37.600						

Version: 4.01 / EUCALYPTUS_03_01_0

		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)
30A	38.1	39.5	77.600
31A	21.6	38.9	60.500
32A	17.5	41.9	59.400
33A	18.2	41.4	59.600
34A	30.5	36	66.500
3A	23	28.4	51.400
4A	21.3	37.5	58.800
5A	22.3	38.1	60.400
6A	29.8	25.3	55.100
7A	18.8	40	58.800
8A	21.7	39	60.700
9A	25.2	38.2	63.400
All other dwellings	27.8	22.9	50.700

(c) Common areas and central systems/facilities

BASIX

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
	no common facility	no common facility	no common facility	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.	V	~	V

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 17/48

	Common area ve	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
Hallway/lobby Building A	ventilation (supply + exhaust)	time clock or BMS controlled	"	daylight sensor and motion sensor	yes

Central energy systems	Туре	Specification
Lift bank (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 12 number of levels from the bottom of the lift shaft to the top of the lift shaft: 15 number of lifts: 3 lift load capacity: >= 1001 kg but <= 1500kg

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 18/48

2. Commitments for Residential flat buildings - Building B

(a) Buildings

BASIX

(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		
floors above habitable rooms, frame: suspended concrete slab	2352.4	-	none		
garage floor, frame: suspended concrete slab	4650	-	none		
suspended floor above enclosed subfloor, frame: suspended concrete slab	8222	-	none		
suspended floor above enclosed subfloor, frame: suspended concrete slab	176	-	none		

External wall types					
External wall type	Construction type	Area (m2)	Low emissions option	Insulation	
External wall type 1	AAC veneer,frame:light steel frame	1061	none	fibreglass batts or roll	

Internal wall types					
Internal wall type Construction type Area (m2) Insulation					
Internal wall type 1 plasterboard, frame:light steel frame 1562 fibreglass batts or roll					

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 19/48

Internal wall types					
Internal wall type Construction type Area (m2) Insulation					
Internal wall type 2	75 mm AAC panel, frame:light steel frame	1639	fibreglass batts or roll		
Internal wall type 3	200 mm AAC block, frame:light steel frame	296	fibreglass batts or roll		

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					
framed - metal roof, frame: light steel frame 866 foil backed blanket 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)
291.3	395.1	-	686.4	-	-	-	-

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 20/48

(b) Dwellings

BASIX

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	>	>	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		~	~
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		~	V
(e) The applicant must install:			
(aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and			V
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		-	~
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	V	~	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		~	
(g) The pool or spa must be located as specified in the table.	V	~	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	~	~	7

	Fixtures			Appli	ances		Indivi	dual pool			ndividual spa	a		
Dwelling no.	All shower- heads	All toilet flushing systems	taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish- washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	3 star (> 7.5 but <= 9 L/min)	4 star	3 star	3 star	-	2.5 star	2.5 star	-	-	-	-	-	-	-

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 21/48

		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	-	-	-	-	-	-	-	
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.		~	V
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		*	>
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		~	~
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	~	~	>
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:			
(aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and		-	
(bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.			

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 22/48

(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		~	V
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		~	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		~	

	Hot water	Bathroom ventilation system		ter Bathroom ventilation system Kitchen ventilation system		lation system	Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control	
All dwellings	I .	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	

	Coc	oling	Hea	ting	Natural liç	hting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - non ducted / EER 3.5 - 4.0	1-phase airconditioning - non ducted / EER 3.5 - 4.0	1-phase airconditioning - non ducted / EER > 4.0	1-phase airconditioning - non ducted / EER > 4.0	0	no

	Individual pool			Individual sp	oa		Appliances of	her 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

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 23/48

(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.	V	~	V
(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.	V		
(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)				
223	40.4	19.8	60.200				
224	34.2	25.3	59.500				
225	27.4	22	49.400				
226	43.6	11.3	54.900				

BASIX Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 24/48

		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)
227	52	10.2	62.200
228	31.8	14.9	46.700
229	28.1	13.5	41.600
230	34.6	10.8	45.400
48A	36.8	20.5	57.300
49A	34.2	25.6	59.800
50A	27.7	21.9	49.600
51A	43.7	11.4	55.100
52A	51.5	10.6	62.100
53A	33	13.6	46.600
54A	28.3	13.6	41.900
55A	33.1	11.6	44.700
56A	37	20.7	57.700
57A	34.4	25.4	59.800
58A	27.8	21.9	49.700
59A	43.8	11.4	55.200
60A	52	10.3	62.300
61A	33.1	13.4	46.500
62A	28.3	13.7	42.000
63A	33.3	11.5	44.800
64A	36	20.7	56.700
65A	32	32.2	64.200
66A	39.1	27.7	66.800
67A	46.4	15	61.400
68A	49.8	12.1	61.900
69A	44.4	21	65.400
70A	41.9	19.7	61.600
All other dwellings	32.9	10.8	43.700

page 25/48

(c) Common areas and central systems/facilities

BASIX

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

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.	V	~	V

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 26/48

	Common area v	Common area ventilation system		Common area lighting			
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS		
Basement 1	no mechanical ventilation	-	compact fluorescent	zoned switching with motion sensor	yes		
Basement 2	no mechanical ventilation	-	compact fluorescent	zoned switching with motion sensor	yes		
Basement 3	no mechanical ventilation	-	compact fluorescent	zoned switching with motion sensor	yes		
Garbage and Bin Room	ventilation exhaust only	-	compact fluorescent	manual on / manual off	no		
Pump Room	no mechanical ventilation	-	compact fluorescent	manual on / manual off	no		
Mechanical	no mechanical ventilation	-	compact fluorescent	manual on / manual off	no		
Bicycle Parking	no mechanical ventilation	-	compact fluorescent	manual on / timer off	no		
Ground floor lobby	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	yes		
Hallway/lobby Building B	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	yes		

Central energy systems	Туре	Specification
Lift bank (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 15 number of levels from the bottom of the lift shaft to the top of the lift shaft: 18 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Central hot water system (No. 1)		Solar collector area (minimum, in square metres): 100 Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 27/48

3. Commitments for Residential flat buildings - Building C

(a) Buildings

BASIX

(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	
floors above habitable rooms, frame: suspended concrete slab	2059.2	-	none	
suspended floor above enclosed subfloor, frame: suspended concrete slab	144	-	none	

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	AAC veneer,frame:light steel frame	1051	none	fibreglass batts or roll

Internal wall types					
Internal wall type	Construction type	Area (m2)	Insulation		
Internal wall type 1	plasterboard, frame:light steel frame	1325.2	fibreglass batts or roll		
Internal wall type 2	75 mm AAC panel, frame:light steel frame	1437.5	fibreglass batts or roll		
Internal wall type 3	200 mm AAC block, frame:light steel frame	286	fibreglass batts or roll		

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 28/48

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		
framed - metal roof, frame: light steel frame	780	foil backed blanket	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)
261.9	166.1	-	428	-	-	-	-

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 29/48

(b) Dwellings

BASIX

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	>	~	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		~	~
(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.	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.	~	>	>

	Fixtures		Appliances Individual pool		Individual spa		a							
Dwelling no.	All shower- heads	All toilet flushing systems	taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish- washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	3 star (> 7.5 but <= 9 L/min)	4 star	3 star	3 star	-	2.5 star	2.5 star	-	-	-	-	-	-	-

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 30/48

		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	-	-	-	-	-	-	-
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.		~	V
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		*	>
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		~	~
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	~	~	>
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:			
(aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and		-	
(bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.			

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 31/48

(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	Bathroom ventilation system		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	

	Coc	oling	Hea	ting	Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - non ducted / EER 3.5 - 4.0	1-phase airconditioning - non ducted / EER 3.5 - 4.0	1-phase airconditioning - non ducted / EER > 4.0	1-phase airconditioning - non ducted / EER > 4.0	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

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 32/48

(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.	V	~	V
(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.	V		
(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)				
123	34.9	14.9	49.800				
124	28.7	24.3	53.000				
125	32.9	20.9	53.800				
126	46.8	8.2	55.000				

BASIX Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 33/48

		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)						
127	40.1	10.5	50.600						
128	38.60	17.9	56.500						
129	20.2	19.7	39.900						
130	31.8	15.2	47.000						
72A	41.6	13.4	55.000						
73A	28.90	24.1	53.000						
74A	33.4	20.9	54.300						
75A	46.60	8.2	54.800						
76A	40.50	10.5	51.000						
77A	38.50	18.8	57.300						
78A	19.90	21.1	41.000						
79A	32.10	15.1	47.200						
80A	33	15.1	48.100						
81A	28.9	24.2	53.100						
82A	33.5	21.2	54.700						
83A	46.7	8.2	54.900						
84A	40.6	10.7	51.300						
85A	38.2	19.5	57.700						
86A	19.4	21.9	41.300						
87A	32.3	15	47.300						
88A	35.8	14	49.800						
89A	42.9	29.7	72.600						
90A	41.9	27.8	69.700						
91A	45.9	15.6	61.500						
92A	45.6	12.9	58.500						
93A	48.6	28.1	76.700						
94A	32.6	31	63.600						
All other dwellings	34.9	15.6	50.500						

Certificate No.: 1741028M

page 34/48

(c) Common areas and central systems/facilities

BASIX

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		>	~
(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.		~	V

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common	no common facility	no common facility	no common facility	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.	>	V	~

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 35/48

	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 Building C	ventilation (supply + exhaust)	time clock or BMS controlled	"	daylight sensor and motion sensor	yes

Central energy systems	Туре	Specification
Lift bank (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 15 number of levels from the bottom of the lift shaft to the top of the lift shaft: 18 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Central hot water system (No. 2)	solar – gas boosted	Solar collector area (minimum, in square metres): 100 Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 36/48

4. Commitments for Residential flat buildings - Building D

(a) Buildings

BASIX

(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				
floors above habitable rooms, frame: suspended concrete slab	1989.2	-	none				
suspended floor above enclosed subfloor, frame: suspended concrete slab	169.2	-	none				

External wall types							
External wall type	Construction type	Area (m2)	Low emissions option	Insulation			
External wall type 1	AAC veneer,frame:light steel frame	795	none	fibreglass batts or roll			

Internal wall types							
Internal wall type	Construction type	Area (m2)	Insulation				
Internal wall type 1	plasterboard, frame:light steel frame	1570	fibreglass batts or roll				
Internal wall type 2	75 mm AAC panel, frame:light steel frame	972	fibreglass batts or roll				
Internal wall type 3	200 mm AAC block, frame:light steel frame	161	fibreglass batts or roll				

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 37/48

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			
framed - metal roof, frame: light steel frame	688	foil backed blanket	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)	
331.5	-	-	331.5	-	-	-	-	

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 38/48

(b) Dwellings

BASIX

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	>	~	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		>	>
(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.	V	~	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		~	
(g) The pool or spa must be located as specified in the table.	V	~	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	>	~	~

	Fixtures			Appliances Individual pool			Individual spa							
Dwelling no.	All shower- heads	All toilet flushing systems	taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish- washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	3 star (> 7.5 but <= 9 L/min)	4 star	3 star	3 star	-	2.5 star	2.5 star	-	-	-	-	-	-	-

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 39/48

	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	-	-	-	-	-	-	-
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:			

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 40/48

(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		~	V
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		~	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		~	

	Hot water	Bathroom 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	electric instantaneous	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	ting	Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - non ducted / EER 3.5 - 4.0	1-phase airconditioning - non ducted / EER 3.5 - 4.0	1-phase airconditioning - non ducted / EER > 4.0	1-phase airconditioning - non ducted / EER > 4.0	0	no

	Individual pool		Individual sp	oa	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

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 41/48

(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.	V	~	V
(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.	V		
(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)				
100A	25.8	10.7	36.500				
101A	36.5	13.1	49.600				
102A	23.2	16.3	39.500				
103A	44.4	13.8	58.200				

BASIX Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 42/48

	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)					
104A	21.3	17.7	39.000					
105A	26.1	10.6	36.700					
106A	52.6	16.6	69.200					
107A	37.4	21.6	59.000					
108A	49.9	16.8	66.700					
109A	36.9	20.5	57.400					
110A	41.9	13.8	55.700					
19	40.5	13	53.500					
20	22.4	16.4	38.800					
21	43.6	13.6	57.200					
34	20.6	17.3	37.900					
35	25.5	11	36.500					
96A	36	13	49.000					
97A	22.7	16.5	39.200					
98A	43.9	13.8	57.700					
All other dwellings	20.9	17.1	38.000					

page 43/48

(c) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common	no common facility	no common facility	no common facility	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.	~	V	V

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 44/48

	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 Building D	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	yes		
Lift bank (No. 1)	-	-	light-emitting diode	connected to lift call button	no		
Lift bank (No. 2)	-	-	light-emitting diode	connected to lift call button	no		
Lift bank (No. 3)	-	-	light-emitting diode	connected to lift call button	no		
Lift bank (No. 4)	-	-	light-emitting diode	connected to lift call button	no		

Central energy systems	Туре	Specification
Lift bank (No. 4)	F motor	Number of levels (including basement): 12 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 but <= 1500kg

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 45/48

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

(b) Common areas and central systems/facilities

BASIX

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

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.		~	V
(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.		~	~

Department of Planning and Environment www.basix.nsw.gov.au Version: 4.01 / EUCALYPTUS_03_01_0 Certificate No.: 1741028M Friday, 22 March 2024 page 46/48

Central energy systems	Туре	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 25 peak kW
	Building management system installed?: yes Common area clothes drying line installed?: yes	-

Department of Planning and Environment www.basix.nsw.gov.au

Version: 4.01 / EUCALYPTUS_03_01_0

Certificate No.: 1741028M

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

BASIX

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

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