BASIX[°]Certificate

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

Multi Dwelling

Certificate number: 1784925M_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Friday, 07 March 2025

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 0011747700.

Project summary	
Project name	5-9 Alexander Street, Fairy Meadow_02
Street address	5-9 ALEXANDER STREET FAIRY MEADOW 2519
Local Government Area	WOLLONGONG
Plan type and plan number	Deposited Plan DP234877
Lot no.	125,126,127
Section no.	-
No. of residential flat buildings	1
Residential flat buildings: no. of dwellings	21
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Project score	
Water	✓ 40 Target 40
Thermal Performance	Pass Target Pass
Energy	✓ 72 Target 67
Materials	✓ -100 Target n/a



*The data listed under the Materials section of this BASIX Certificate are indicative only & shall be read in conjunction with the NatHERS Certificate. If there are any contradictions between the areas shown, the NatHERS Certificate shall take precedence.

BASIX Department of Planning, Housing and Infrastructure

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Version: 4.03 / EUCALYPTUS 03 01 0 Certifi

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Description of project

Project address

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Lot no.	125,126,127
Section no.	-
Project type	
No. of residential flat buildings	1
Residential flat buildings: no. of dwellings	21
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	2479
Roof area (m²)	600
Non-residential floor area (m ²)	-
Residential car spaces	17
Non-residential car spaces	-

Common area landscape							
Common area lawn (m ²)	200						
Common area garden (m²)	591						
Area of indigenous or low water use species (m ²)	100						
Assessor details and thermal loads							
Assessor number	DMN/13/1645						
Certificate number	0011747700						
Climate zone	limate zone 56						
Project score							
Water	40	Target 40					
Thermal Performance	V Pass	Target Pass					
Energy	72	Target 67					
Materials	-100	Target n/a					

Description of project

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

Residential flat buildings - Building1, 21 dwellings, 3 storeys above ground

Dwelling no.	No. of bedrooms		Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms		Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
1	2	71.0	0.0	19	0	10	1	53.6	0	0	0	11	2	85.0	0.0	0	0	12	2	69.2	7.8	0	0
13	1	56.2	0	0	0	14	2	72.2	0	0	0	15	2	73.6	0.0	0	0	16	1	45.0	8.1	0	0
17	1	50.9	0	0	0	18	2	84.6	0.0	0	0	19	2	70.2	0.0	0	0	2	1	51.5	0	15.5	0
20	1	58.4	0	0	0	21	2	72.8	0	0	0	3	1	53.3	0	16	0	4	2	83.5	7	15	0
5	2	67.5	7.5	15	0	6	1	54.3	0	16	0	7	2	69.9	0	21	0	8	2	73.6	0.0	0	0
9	1	44.1	7.2	0	0						· · · · · · · · · · · · · · · · · · ·												

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Description of project

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

Common areas of unit building - Building1

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Ground floor lobby type (No. 1)	50	Hallway/lobby type (No. 1)	47	Hallway/lobby type (No. 2)	47
Lift bank (No. 1)	-				

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building1

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for 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 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 - Building1

(a) Buildings

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

Floor types								
Floor type	Area (m2)	Insulation	Low emissions option					
suspended floor above enclosed subfloor, frame: suspended concrete slab	558	-	-					
floors above habitable rooms, frame: suspended concrete slab	1116	-	-					

External wall types							
External wall type	Construction type	Area (m2)	Low emissions option	Insulation			
External wall type 1	cavity brick,frame:light steel frame	877.7	-	foil-foam composite board			

Internal wall types								
Internal wall type	Construction type	Area (m2)	Insulation					
Internal wall type 1	plasterboard, frame:light steel frame	562	-					
Internal wall type 2	single skin masonry, frame:light steel frame	257	-					
Internal wall type 3	cavity brick wall, frame:light steel frame	450	-					

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	720	foil backed blanket	rockwool batts, roll or pump-in				

	Glazing types		Frame types						
Single glazing (m ²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m ²)	uPVC frames (m²)	Steel frames (m ²)	Composite frames (m²)		
266	-	-	266	-	-	-	-		

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

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			Alternat	ive water sou	rce					
Dwelling no.	Alternative water supply systems	Size	Configuration		Landscape connection	Toilet connec (s)		ndry nection	Pool top- up	Spa top-up
, 2, 3, 4, 5, 6,	Central water tank (No. 1)	See central systems	See central systems		yes	no	no		no	no
All other Iwellings	No alternative water supply	-	-		-	-	-	-		
(ii) Energy							Show on DA plans		w on CC/CDC s & specs	Certifier check
(a) The applica	ant must comply with the co	mmitments listed	d 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.									~	~
headings c cooling or l such areas	f the "Cooling" and "Heating neating system is specified	g" columns in the in the table for "I	em/s specified for the dwelling under the e table below, in/for at least 1 living/bedr Living areas" or "Bedroom areas", then i air conditioning system, then the system	oom area of the systems ma	he dwelling. If n ay be installed i	io in any			~	~
the table by lighting" for specified for	elow (but only to the extent each such room in the dwe	specified for tha elling is fluoresce then the light fit	welling which is referred to in a heading t room or area). The applicant must ens ent lighting or light emitting diode (LED) tings in that room or area must only be o	ure that the "p lighting. If the	rimary type of a term "dedicated	artificial d" is			~	~
the table b			welling which is referred to in a heading t room or area). The applicant must ens				>		~	~
(g) This comm	itment applies if the applica	nt installs a wate	er heating system for the dwelling's pool	or spa. The a	applicant must:					
			Individual Pool" column of the table belo icant must install a timer, to control the			nstall			 Image: A second s	
			ndividual Spa" column of the table belo cant must install a timer to control the s		vely must not in	stall			v	

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

	Hot water	Bathroom ven	tilation system	Kitchen ventilation system		Laundry ventilation system		
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control	
1, 2, 3, 4, 5, 6, 7		individual fan, ducted to façade or roof	ę	individual fan, ducted to façade or roof	manual switch on/off	individual fan, open to façade	interlocked to light	
All other dwellings	electric instantaneous	individual fan, ducted to façade or roof	interlocked to light with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, open to façade	interlocked to light	

	Coc	bling	Неа	ting	Natural lighting		
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen	
1, 11, 12, 15, 18, 19, 4, 5, 8	1-phase airconditioning - non ducted / EER 3.0 - 3.5	no individual system	1-phase airconditioning - non ducted / EER 3.0 - 3.5	no individual system	1	no	
All other dwellings	1-phase airconditioning - non ducted / EER 3.0 - 3.5	no individual system	1-phase airconditioning - non ducted / EER 3.0 - 3.5	no individual system	0	no	

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		Individual pool		Individual	spa		Appliances	other efficie	ncy 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 Iwellings	-	-	-	-	-	electric cooktop & electric oven	not specified	not specified	no	yes
(iii) Therma	al Performance							Show on DA plans	Show on CC/CI plans & specs	DC Certifier check
"Assess the app	sor Certificate") to th licant is applying for	ne certificate referred t e development applica a complying developr sor Certificate to the a	ation and cons	truction certificate a for the proposed de	pplication for evelopment, t	the proposed develo o that application). T	oment (or, if ne applicant			
(b) The Ass	sessor Certificate mu	ust have been issued l	by an Accredit	ed Assessor in acco	rdance with t	he Thermal Comfort	Protocol.			
		development on the A tails shown in the "The			stent with the	details shown in this	BASIX			
the The	ermal Comfort Protoc	n the plans accompany col requires to be show tify that this is the case	n on those pla					~		
certifica	ate, if applicable), all	the plans accompany thermal performance and to calculate those	specifications	set out in the Asses					~	
Certifica	ate, and in accordan	t the development in a ce with those aspects to calculate those spe	of the develop						~	~
(g) Where t	there is an in-slab he	eating or cooling syste	m, the applica	nt must:				~	~	~
(aa)	Install insulation wit	h an R-value of not le	ss than 1.0 ard	ound the vertical edg	ges of the per	imeter of the slab; or				
(bb)	On a suspended flo edges of the perim	or, install insulation w leter of the slab.	ith an R-value	of not less than 1.0	underneath t	he slab and around tl	ne vertical			
(h) The app	olicant must construc	ct the floors and walls	of the develop	ment in accordance	with the spec	cifications listed in the	e table below.	~	~	~
	licant must show on fans set out in The A	The plans accompany	ving The devel	opment application	for The propo	sed development, Th	e locations of	~		

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(iii) Thermal Performand	ce		Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(j) The applicant must she certificate, if applicabl	ow on the plans accompanying the application for a constru le), the locations of ceiling fans set out in the Assessor Certi	ction certificate (or complying development ificate.		`	
		Thermal loads			
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adju	sted total load (in MJ/ı	m²/yr)
1	0.2	2.9	3.100		
10	2.3	10.0	12.300		
11	5.7	2.8	8.500		
12	7.4	4.7	12.100		
13	2.1	6.7	8.800		
14	1.6	7.4	9.000		
15	4.4	4.7	9.100		
16	9.5	5.1	14.600		
17	5.4	9.8	15.200		
18	14.7	3.1	17.800		
19	18.3	4.9	23.200		
2	10.0	2.8	12.800		
20	10.5	7.2	17.700		
21	6.6	6.2	12.800		
3	3.1	4.6	7.700		
4	8.0	2.0	10.000		
5	13.5	3.2	16.700		
6	6.7	4.7	11.400		
7	1.8	3.6	5.400		
8	0.8	3.9	4.700		
All other dwellings	4.7	3.7	8.400		

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(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.		~	٢
(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				

Central systems	Size	Configuration	Connection (to allow for)
Central water tank - rainwater or stormwater (No. 1)	8000	To collect run-off from at least: - 500 square metres of roof area of buildings in the development - 0 square metres of impervious area in the development - 0 square metres of garden/lawn area in the development - 0 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system).	- irrigation of 791 square metres of common landscaped area on the site

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

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(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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
Ground floor lobby type (No. 1)	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	-
Hallway/lobby type (No. 1)	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	-
Hallway/lobby type (No. 2)	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	-
Lift bank (No. 1)	-	-	light-emitting diode	connected to lift call button	-

Central energy systems	Туре	Specification
Lift bank (No. 1)	F motor	Number of levels (including basement): 3 number of levels from the bottom of the lift shaft to the top of the lift shaft: 3 number of lifts: 1 lift load capacity: >1500kg

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	Туре	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 14.0 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 "V" 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 "V" 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).