# **BASIX**™Certificate

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

## Single Dwelling

Certificate number: 1799711S

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

#### Secretary

Date of issue: Friday, 13 June 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.



Project summary		
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Project name	Blackbutt Drive	
Street address	18 BLACKBUTT Drive FAILFORD	2430
Local Government Area	Mid-Coast Council	
Plan type and plan number	Deposited Plan DP731468	
Lot no.	28	
Section no.	-	
Project type	dwelling house (detached) - second	lary dwelling
No. of bedrooms	1	
Project score		
Water	<b>✓</b> 44	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	<b>√</b> 71	Target 67
Materials	<b>✓</b> -41	Target n/a

Certificate Prepared by
Name / Company Name: PKL Building
ABN (if applicable):

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# **Description of project**

Project address	
Project name	Blackbutt Drive
Street address	18 BLACKBUTT Drive FAILFORD 2430
Local Government Area	Mid-Coast Council
Plan type and plan number	Deposited Plan DP731468
Lot no.	28
Section no.	-
Project type	
Project type	dwelling house (detached) - secondary dwelling
No. of bedrooms	1
Site details	
Site area (m²)	1200
Roof area (m²)	218
Conditioned floor area (m²)	46.0
Unconditioned floor area (m²)	14.0
Total area of garden and lawn (m²)	1000
Roof area of the existing dwelling (m²)	400
Number of bedrooms in the existing dwelling	4

Assessor details and therma	al loads	
NatHERS assessor number	n/a	
NatHERS certificate number	n/a	
Climate zone	n/a	
Area adjusted cooling load (MJ/m².year)	n/a	
Area adjusted heating load (MJ/m².year)	n/a	
Project score		
Water	<b>✓</b> 44	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	<b>✓</b> 71	Target 67
Materials	<b>✓</b> -41	Target n/a

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## **Schedule of BASIX commitments**

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

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Landscape			
The applicant must plant indigenous or low water use species of vegetation throughout 1000 square metres of the site.	~	~	
Fixtures			
The applicant must install showerheads with a minimum rating of 4 star (> 4.5 but <= 6 L/min plus spray force and/or coverage tests) in all showers in the development.		~	~
The applicant must install a toilet flushing system with a minimum rating of 6 star in each toilet in the development.		>	~
The applicant must install taps with a minimum rating of 6 star in the kitchen in the development.		<b>~</b>	
The applicant must install basin taps with a minimum rating of 6 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 4000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	~	~
The applicant must configure the rainwater tank to collect rain runoff from at least 218 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		>	~
The applicant must connect the rainwater tank to:			
all toilets in the development		<b>~</b>	~
the cold water tap that supplies each clothes washer in the development		<b>~</b>	~

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.)		~	~

Thermal Performance and Materials commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Do-it-yourself Method			
General features			
The dwelling must be a Class 1 dwelling according to the National Construction Code, and must not have more than 2 storeys.	~	~	~
The conditioned floor area of the dwelling must not exceed 300 square metres.	~	~	~
The dwelling must not contain open mezzanine area exceeding 25 square metres.	~	~	~
The dwelling must not contain third level habitable attic room.	~	~	~
Floor, walls and ceiling/roof			
The applicant must construct the floor(s), walls, and ceiling/roof of the dwelling in accordance with the specifications listed in the table below.	~	~	~
The applicant must adopt one of the options listed in the tables below to address thermal bridging in metal framed floor(s), walls and ceiling/roof of the dwelling.	~	~	~
The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the tables below.			~

Construction	Area - m²	Additional insulation required	Options to address thermal bridging	Other specifications
floor - concrete slab on ground, conventional slab.	60	nil;not specified	nil	
garage floor - concrete slab on ground.	42	none	nil	
external wall: framed (fibre cement sheet or boards); frame: timber - H2 treated softwood.	31	3.00 (or 3.50 including construction);fibreglass batts or roll + reflective foil in the cavity	nil	wall colour: Medium (solar absorptance 0.48-0.7)

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Construction	Area - m²	Additional insulation required	Options to address thermal bridging	Other specifications
external wall: framed (fibre cement sheet or boards); frame: timber - H2 treated softwood.	27	3.00 (or 3.50 including construction);fibreglass batts or roll + reflective foil in the cavity	nil	wall colour: Medium (solar absorptance 0.48-0.7)
external wall: framed (fibre cement sheet or boards); frame: timber - H2 treated softwood.	31	3.00 (or 3.50 including construction);fibreglass batts or roll + reflective foil in the cavity	nil	wall colour: Medium (solar absorptance 0.48-0.7)
external wall: framed (fibre cement sheet or boards); frame: timber - H2 treated softwood.	27	3.00 (or 3.50 including construction);fibreglass batts or roll + reflective foil in the cavity	nil	wall colour: Medium (solar absorptance 0.48-0.7)
internal wall: plasterboard; frame: timber - H2 treated softwood.	48	none	nil	
ceiling and roof - flat ceiling / pitched roof, framed - metal roof, timber - H2 treated softwood.	218	ceiling: 4.5 (up), roof: foil backed blanket ;ceiling: fibreglass batts or roll; roof: foil backed blanket.	nil	roof space ventilation: unventilated; roof colour: medium (solar absorptance 0.48-0.59); ceiling area fully insulated

Note	• Insulation specified in this Certificate must be installed in accordance with the ABCB Housing Provisions (Part 13.2.2) of the National Construction Code.	
Note	• If the additional ceiling insulation listed in the table above is greater than R3.0, refer to the ABCB Housing Provisions (Part 13.2.3 (6)) of the National Construction Code.	
Note	In some climate zones, insulation should be installed with due consideration of condensation and associated interaction with adjoining building materials.	
Note	Note • Thermal breaks must be installed in metal framed walls and applicable roofs in accordance with the ABCB Housing Provisions of the National Construction Code.	

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Thermal Performance and Materials commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Ceiling fans			
The applicant must install at least one ceiling fan in at least one daytime habitable space, such as living room.	~	~	~
The applicant must install at least one ceiling fan in each bedroom.	~	~	~
• The minimum number and diameter of ceiling fans in a daytime habitable space must be installed in accordance with the ABCB Housing Provisions (Part 13.5.2) of the National Construction Code .	~	~	~

Thermal Performance and Materials commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Glazed windows, doors and skylights			
The applicant must install the windows, glazed doors and shading devices described in the table below, in accordance with the specifications listed in the table. Relevant overshadowing specifications must be satisfied for each glazed window and door.	~	~	~
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	~	~	~
The following requirements must also be satisfied in relation to each window and glazed door:	~	~	~
The applicant must install windows and glazed doors in accordance with the height and width, frame and glazing types listed in the table.	~	~	~
• Each window and glazed door must have a U- value no greater than that listed and a Solar Heat Gain Coefficient (SHGC) within the range listed. Total system U values and SHGC must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.		~	~
<ul> <li>Overshadowing buildings/vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column.</li> </ul>	~	~	~
The applicant must install the skylights described in the table below, in accordance with the specifications listed in the table. Total skylight area must not exceed 3 square metres (the 3 square metre limit does not include the optional additional skylight of less than 0.7 square metres that does not have to be listed in the table).	~	~	~

Skylight no.	Maximum area (m²)	Skylight specification	Shading device
S01	0.25	aluminium, double/argon fill clear (U: <=3.5, SHGC: 0.21 - 0.24)	no shading

Glazed window/door no.	Maximum height (mm)	Maximum width (mm)	Frame and glass specification	Shading device (Dimension within 10%)	Overshadowing
North facing					
W12	2000.00	900.00	aluminium, single glazed (U-value: <=6.0, SHGC: 0.60 - 0.74)	eave 600 mm, 600 mm above head of window or glazed door	not overshadowed

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Glazed window/door no.	Maximum height (mm)	Maximum width (mm)	Frame and glass specification	Shading device (Dimension within 10%)	Overshadowing
W13	2000.00	900.00	aluminium, single glazed (U-value: <=6.0, SHGC: 0.60 - 0.74)	eave 600 mm, 600 mm above head of window or glazed door	not overshadowed
East facing					
W11	2000.00	900.00	aluminium, single glazed (U-value: <=6.0, SHGC: 0.60 - 0.74)	eave 1700 mm, 200 mm above head of window or glazed door	1-2 m high, <1.5 m away
W23	600.00	1200.00	aluminium, single glazed (U-value: <=6.0, SHGC: 0.60 - 0.74)	eave 1700 mm, 200 mm above head of window or glazed door	1-2 m high, <1.5 m away
W22	400.00	1800.00	aluminium, single glazed (U-value: <=6.0, SHGC: 0.60 - 0.74)	eave 1700 mm, 200 mm above head of window or glazed door	1-2 m high, <1.5 m away
South facing					
W21	400.00	1800.00	aluminium, single glazed (U-value: <=6.0, SHGC: 0.60 - 0.74)	eave 600 mm, 600 mm above head of window or glazed door	not overshadowed
West facing					
D08	2100.00	2700.00	aluminium, single glazed (U-value: <=6.0, SHGC: 0.60 - 0.74)	solid overhang 3300 mm, 200 mm above head of window or glazed door	not overshadowed

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Hot water			•
The applicant must install the following hot water system in the development, or a system with a higher energy rating: electric boosted solar with a performance of 26 to 30 STCs or better.	~	~	~
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning - non ducted; Energy rating: EER < 2.5		~	~
The bedrooms must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		~	~
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning - non ducted; Energy rating: EER < 2.5		~	~
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		~	~
Ventilation			
The applicant must install the following exhaust systems in the development:			1
At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off		<b>~</b>	-
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		<b>~</b>	~
Laundry: natural ventilation only, or no laundry; Operation control: n/a		<b>~</b>	~
Artificial lighting			
The applicant must ensure that a minimum of 80% of light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		~	~
Natural lighting			
The applicant must install a window and/or skylight in 2 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	~

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Other			
The applicant must install an induction cooktop & electric oven in the kitchen of the dwelling.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		~	
The applicant must install a fixed indoor or sheltered clothes drying line as part of the development.		~	

### Legend

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In these commitments, "applicant" means the person carrying out the development.

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).

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.

Commitments identified with a in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate (either interim or final) for the development may be issued.

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