# **BASIX**<sup>°</sup>Certificate

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

### Single Dwelling

Certificate number: 1784119S

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: Wednesday, 19 February 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				
Project name	3916 - Mitchell New Dwelling			
Street address	176 GLADSTONE Street MUDGEE 2850			
Local Government Area	Mid-Western Regional Council			
Plan type and plan number	Deposited Plan DP770287			
Lot no.	12			
Section no.	-			
Project type	dwelling house (detached) - secondary dwelling			
No. of bedrooms	2			
Project score				
Water	✓ 30 Target 30			
Thermal Performance	✓ Pass Target Pas	S		
Energy	69 Target 59			
Materials	✓ 27 Target n/a			

### Certificate Prepared by

Name / Company Name: Rohrs Refrigeration

ABN (if applicable): 37101256320

Version: 4.03 / EUCALYPTUS\_03\_01\_0 Certificate No.: 1784119S Wednesday, 19 February 2025

## **Description of project**

### Project address

Project name	3916 - Mitchell New Dwelling
Street address	176 GLADSTONE Street MUDGEE 2850
Local Government Area	Mid-Western Regional Council
Plan type and plan number	Deposited Plan DP770287
Lot no.	12
Section no.	-
Project type	
Project type	dwelling house (detached) - secondary dwelling
No. of bedrooms	2
Site details	
Site area (m²)	666
Roof area (m²)	70
Conditioned floor area (m <sup>2</sup> )	50.0
Unconditioned floor area (m <sup>2</sup> )	5.0
Total area of garden and lawn (m <sup>2</sup> )	100
Roof area of the existing dwelling (m <sup>2</sup> )	132
Number of bedrooms in the existing dwelling	3

#### Assessor details and thermal loads NatHERS assessor number n/a NatHERS certificate number n/a Climate zone n/a Area adjusted cooling load (MJ/ n/a m².year) Area adjusted heating load (MJ/ n/a m².year) Project score Water 9 30 Target 30 Thermal Performance 4 Pass Target Pass Energy 69 🖌 Target 59 Materials 27 Target n/a

### 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.

Vater Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
ïxtures			
he applicant must install showerheads with a minimum rating of 4 star (> 6 but <= 7.5 L/min plus spray force and/or coverage tests) i all showers in the development.	in	~	~
he applicant must install a toilet flushing system with a minimum rating of 5 star in each toilet in the development.		~	~
he applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		~	
he applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		~	
Iternative water			
ainwater tank			
he applicant must install a rainwater tank of at least 2000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	~	~
he applicant must configure the rainwater tank to collect rain runoff from at least 70 square metres of the roof area of the levelopment (excluding the area of the roof which drains to any stormwater tank or private dam).		~	~
he applicant must connect the rainwater tank to:			
all toilets in the development		<ul> <li>✓</li> </ul>	<ul> <li>Image: A set of the set of the</li></ul>
• at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human			1

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, waffle pod slab.	60	nil;not specified	nil	
external wall: framed (solid or reconstituted timber weatherboard); frame: timber - H2 treated softwood.	all external walls	3.00 (or 3.50 including construction);fibreglass batts or roll + reflective foil in the cavity	nil	wall colour: Light (solar absorptance < 0.48)
internal wall: plasterboard; frame: timber - H2 treated softwood.	32	none	nil	

BASIX Department of Planning, Housing and Infrastructure

Const	ruction	Area - m²	Additional insulation required	Options to address thermal bridging	Other specifications
pitche	and roof - flat ceiling / d roof, framed - metal roof, · - H2 treated softwood.	70	ceiling: 4.5 (up), roof: foil/ sarking ;ceiling: fibreglass batts or roll; roof: foil/sarking.	nil	roof space ventilation: unventilated; roof colour: medium (solar absorptance 0.48-0.59); ceiling area fully insulated
Note	<ul> <li>Insulation specified in this</li> </ul>	Certificate must be install	ed in accordance with the ABCB Housing Provisi	ons (Part 13.2.2) of the National Con	struction Code.
Note	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	<ul> <li>In some climate zones, in</li> </ul>	sulation should be installed	d with due consideration of condensation and as	sociated interaction with adjoining bui	ilding materials.
Note	Roof space ventilation net	eds to meet the condensat	ion management provisions in the ABCB Housin	g Provisions of the National Construc	ction Code.
Nata	<ul> <li>• Thermal breaks must be installed in metal framed walls and applicable roofs in accordance with the ABCB Housing Provisions of the National Construction Code.</li> </ul>				

Thermal Performance and Materials commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check			
ilazed 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.		~	~			
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).	~	~	~			

Glazed window/door no.	Maximum height (mm)	Maximum width (mm)	Frame and glass specification	Shading device (Dimension within 10%)	Overshadowing
North-East facing					
Kitchen	1000.00	1200.00	aluminium, single glazed (U- value: <=6.5, SHGC: >0.6)	eave 550 mm, 0 mm above head of window or glazed door	not overshadowed
Bed 2	1500.00	1200.00	aluminium, single glazed (U- value: <=6.5, SHGC: >0.6)	eave 550 mm, 0 mm above head of window or glazed door	not overshadowed
South-East facing					
Meals	2100.00	1800.00	aluminium, single glazed (U- value: <=6.5, SHGC: >0.6)	eave 550 mm, 0 mm above head of window or glazed door	not overshadowed

Glazed window/door no.	Maximum height (mm)	Maximum width (mm)	Frame and glass specification	Shading device (Dimension within 10%)	Overshadowing
Kitchen	1200.00	1200.00	aluminium, single glazed (U- value: <=6.5, SHGC: >0.6)	eave 550 mm, 0 mm above head of window or glazed door	not overshadowed
South-West facing				·	
Bed 1	1500.00	1200.00	aluminium, single glazed (U- value: <=6.5, SHGC: >0.6)	eave 550 mm, 0 mm above head of window or glazed door	not overshadowed
Living	1500.00	1200.00	aluminium, single glazed (U- value: <=6.5, SHGC: >0.6)	eave 550 mm, 0 mm above head of window or glazed door	not overshadowed
North-West facing	•	·			
Bath	900.00	900.00	aluminium, single glazed (U- value: <=6.5, SHGC: >0.6)	eave 550 mm, 0 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: gas instantaneous with a performance of 5 stars.	~	<b>`</b>	~
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: 5 star (cold zone)		~	~
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: 5 star (cold zone)		~	~
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		<b>~</b>	~
Ventilation	-		
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, open to façade; Operation control: manual switch on/off		<b>~</b>	<b>~</b>
Kitchen: individual fan, open to façade; Operation control: manual switch on/off		<ul> <li></li> </ul>	<ul> <li>Image: A set of the set of the</li></ul>
Laundry: natural ventilation only, or no laundry; Operation control: n/a		<ul> <li></li> </ul>	<ul> <li>Image: A set of the set of the</li></ul>
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 the kitchen of the dwelling for natural lighting.			

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must install a window and/or skylight in 1 bathroom(s)/toilet(s) in the development for natural lighting.	~	<b>~</b>	~
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		~	

### Legend

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

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).

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.

Commitments identified with a V 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.