# **BASIX**<sup>°</sup>Certificate

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

## Single Dwelling

Certificate number: 1251838S

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: Thursday, 28 October 2021 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project summary				
Project name	2128- Mudgee House Dwelling 2			
Street address	361 Old Grattai Road Erudgere 2850			
Local Government Area	Mid-Western Regional Council			
Plan type and plan number	deposited 756897			
Lot no.	102			
Section no.	-			
Project type	separate dwelling house - secondary dwelling			
No. of bedrooms	2			
Project score				
Water	V 52 Target 30			
Thermal Comfort	V Pass Target Pass			
Energy	V 44 Target 40			

Certificate	Prepared by
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Name / Company Name: Anderson Architecture

#### ABN (if applicable): 53206814512

# **Description of project**

### Project address

2128- Mudgee House Dwelling 2				
361 Old Grattai Road Erudgere 2850				
Mid-Western Regional Council				
Deposited Plan 756897				
102				
-				
separate dwelling house - secondary dwelling				
2				
4000000				
72				
45.0				
4.0				
0				
347				
4				

Assessor details and thermal lo	oads
Assessor number	n/a
Certificate number	n/a
Climate zone	n/a
Area adjusted cooling load (MJ/m <sup>2</sup> .year)	n/a
Area adjusted heating load (MJ/m <sup>2</sup> .year)	n/a
Ceiling fan in at least one bedroom	n/a
Ceiling fan in at least one living room or other conditioned area	n/a
Project score	
Water	V 52 Target 30
Thermal Comfort	V Pass Target Pass
Energy	V 44 Target 40

### 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
Fixtures			
The applicant must install showerheads with a minimum rating of 4 star (> 6 but <= 7.5 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 5 star in each toilet in the development.		~	~
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 5000 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 72 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		<ul> <li></li> </ul>	~
The applicant must connect the rainwater tank to:			
all toilets in the development		<ul> <li>Image: A second s</li></ul>	~
<ul> <li>the cold water tap that supplies each clothes washer in the development</li> </ul>		<ul> <li>Image: A second s</li></ul>	~
<ul> <li>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.)</li> </ul>		<ul> <li>Image: A set of the set of the</li></ul>	~
all hot water systems in the development		<ul> <li>Image: A set of the set of the</li></ul>	~
<ul> <li>all indoor cold water taps (not including taps that supply clothes washers) in the development</li> </ul>			<b>_</b>

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
General features			
The dwelling 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.	~	~	~

Construction	Additional insulation required (R-Value)	Other specifications
floor - suspended floor above open subfloor, framed	1.8 (or 2.5 including construction) (down)	
external wall - framed (weatherboard, fibre cement, metal clad)	3.20 (or 3.60 including construction)	
ceiling and roof - raked ceiling / pitched or skillion roof, framed	ceiling: 5.5 (up), roof: foil/sarking	framed; medium (solar absorptance 0.475-0.70)

Note	Insulation specified in this Certificate must be installed in accordance with Part 3.12.1.1 of the Building Code of Australia.
Note	• In some climate zones, insulation should be installed with due consideration of condensation and associated interaction with adjoining building materials.

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check		
Vindows, glazed 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 window and glazed 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:	~	<b>~</b>	~		
• For the following glass and frame types, the certifier check can be performed by visual inspection.					
- Aluminium single clear					
- Aluminium single clear					
- Aluminium double (air) clear					

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing		
North facing	North facing						
W0.01	2100	2900	U-value: 2.3, SHGC: 0.225 - 0.275 (timber/UPVC/fibreglass, double (air), Lo-Tsol Low-e/clear)	eave 450 mm, 130 mm above head of window or glazed door	not overshadowed		
W0.02	2100	2900	U-value: 2.3, SHGC: 0.225 - 0.275 (timber/UPVC/fibreglass, double (air), Lo-Tsol Low-e/clear)	verandah 2800 mm, 2400 mm above base of window or glazed door	not overshadowed		
East facing		1					
W05	1500	800	U-value: 2.3, SHGC: 0.171 - 0.209 (timber/UPVC/fibreglass, double (air), Lo-Tsol Low-e/clear)	none	not overshadowed		

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
South facing					
W0.04	1599	899	U-value: 2.3, SHGC: 0.171 - 0.209 (timber/UPVC/fibreglass, double (air), Lo-Tsol Low-e/clear)	eave 245 mm, 130 mm above head of window or glazed door	not overshadowed
West facing					
W0.03	1900	1200	U-value: 2.3, SHGC: 0.171 - 0.209 (timber/UPVC/fibreglass, double (air), Lo-Tsol Low-e/clear)	eave 450 mm, 130 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: solar (electric boosted).	~	<b>v</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: ceiling fans; Energy rating: n/a		~	~
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: ceiling fans; Energy rating: n/a		<b>~</b>	~
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: wood heater; Energy rating: n/a		~	~
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		<b>~</b>	~
The wood heater must have a compliance plate confirming that it complies with the relevant Australian standards, and must be installed in accordance with the requirements of all applicable regulatory authorities.			~
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: no mechanical ventilation (ie. natural); Operation control: n/a		<ul> <li>Image: A second s</li></ul>	~
Kitchen: no mechanical ventilation (ie. natural); Operation control: n/a		<ul> <li></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 the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:			
at least 1 of the bedrooms / study; dedicated		~	~
<ul> <li>at least 1 of the living / dining rooms; dedicated</li> </ul>		<b>~</b>	<b>v</b>

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
the kitchen; dedicated		~	~
all bathrooms/toilets; dedicated		<b>~</b>	~
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	<b>~</b>	~	~
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 construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.		~	
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 vi 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 vi 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 vi 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.