## **BASIX<sup>™</sup>Certificate**

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

## Single Dwelling

Certificate number: 1791084S

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: Wednesday, 09 April 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	1506 MCQUIGGIN				
Street address	8 DAVIES Road KANDOS 2848				
Local Government Area	Mid-Western Regional Council				
Plan type and plan number	Deposited Plan DP9704				
Lot no.	3				
Section no.	21				
Project type	dwelling house (detached)				
No. of bedrooms	4				
Project score					
Water	41	Target 40			
Thermal Performance	V Pass	Target Pass			
Energy	72	Target 61			
Materials	-27	Target n/a			

### Certificate Prepared by

Name / Company Name: On Point Building Design

ABN (if applicable):

Version: 4.03 / EUCALYPTUS\_03\_01\_0 Certificate No.: 1791084S Wednesda

# **Description of project**

## Project address

1506 MCQUIGGIN
8 DAVIES Road KANDOS 2848
Mid-Western Regional Council
Deposited Plan DP9704
3
21
dwelling house (detached)
4
955
199
188.0
22.0
700
0

#### 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 m<sup>2</sup>.year) Area adjusted heating load (MJ/ n/a m².year) **Project score** Water 41 🖌 Target 40 Thermal Performance 4 Pass Target Pass Energy 72 Target 61 Materials -27 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 20 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 4 star in each toilet in the development.		~	~
The applicant must install taps with a minimum rating of 4 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 4 star in each bathroom in the development.		~	
Alternative water		•	
Rainwater tank			
The applicant must install a rainwater tank of at least 10000 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 199 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>	<ul> <li>Image: A set of the set of the</li></ul>
<ul> <li>the cold water tap that supplies each clothes washer in the development</li> </ul>		<b>_</b>	<b>v</b>

ater Commitments				Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least one outdoor tap in the developmen consumption in areas with potable water	t (Note: NSW Health does supply.)	not recommend that rainwater be used f	or human		~	<b>~</b>
Department of Planning, Housing and	www.basix.nsw.gov.au	Version: 4.03 / EUCALYPTUS_03_01_0	Certificate No.: 179108		ednesday, 09 April 2025	pa

Infrastructure

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.	147	nil;not specified	nil	
floor - above habitable rooms or mezzanine, particle board; frame: light steel frame	63	nil;not specified	nil	

Construction	Area - m²	Additional insulation required	Options to address thermal bridging	Other specifications
external wall: framed (metal clad); frame: light steel frame.	all external walls	3.00 (or 3.50 including construction) with one of the measures to address thermal bridging;fibreglass batts or roll + reflective foil in the cavity	• Install reflective foil outside the frame to create a minimum 20 mm reflective airspace between frame and veneer, or • Install continuous insulation layer with at least R0.3 on the inside or outside of the frame	wall colour: Medium (solar absorptance 0.48-0.7)
internal wall: plasterboard; frame: light steel frame.	120	none	nil	
ceiling and roof - flat ceiling / pitched roof, framed - metal roof, light steel frame.	199	ceiling: 5.5 (up), roof: foil backed blanket with one of the measures to address thermal bridging;ceiling: fibreglass batts or roll; roof: foil backed blanket.	• Install additional R0.5 (up) (or R6 (up) including the additional insulation), or • Install continuous ceiling insulation layer with at least R0.13 above or below the ceiling joists or the bottom chords of the trusses, or • Install two layers of insulation immediately on top of each other, with the top layer of at least R0.5 oriented to cover the ceiling joists or bottom chords of the trusses	roof space ventilation: unventilated; roof colour: light (solar absorptance < 0.38); 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	• Roof space ventilation needs to meet the condensation management provisions in the ABCB Housing Provisions of the National Construction Code.
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.

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 .	~	<b>~</b>	~

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.		~	~
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 facing					
Media	1200.00	2100.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	none	not overshadowed
Bed 4	1200.00	2100.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	none	not overshadowed
East facing					
Dining	1200.00	2100.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	eave 600 mm, 500 mm above head of window or glazed door	not overshadowed

					1
Glazed window/door no.	Maximum height (mm)	Maximum width (mm)	Frame and glass specification	Shading device (Dimension within 10%)	Overshadowing
Rumpus	900.00	2100.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	eave 600 mm, 500 mm above head of window or glazed door	not overshadowed
South facing					
Meals	2100.00	2100.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	none	not overshadowed
Kitchen	1000.00	1200.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	none	not overshadowed
Laundry	2100.00	1500.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	none	not overshadowed
Bed 3	1200.00	2100.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	none	not overshadowed
Bed 2	1200.00	2100.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	none	not overshadowed
West facing					
Bath	1200.00	1200.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	eave 600 mm, 500 mm above head of window or glazed door	not overshadowed
WC	900.00	600.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	eave 600 mm, 500 mm above head of window or glazed door	not overshadowed
Stairs	900.00	2100.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	eave 600 mm, 500 mm above head of window or glazed door	not overshadowed
Rumpus	900.00	2100.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	eave 600 mm, 500 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
Ens	900.00	600.00	aluminium, single glazed (U-value: <=4.5, SHGC: >0.74)	eave 600 mm, 500 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 6 stars.	~	~	<b>~</b>
Cooling system			
The living areas must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		~	<b>~</b>
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: gas fixed flued heater - ducted; Energy rating: 3 Star		~	~
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:			
At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off		<b>~</b>	<ul> <li>Image: A set of the set of the</li></ul>
Kitchen: individual fan, ducted to façade or roof; 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>	~
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 3 bathroom(s)/toilet(s) in the development for natural lighting.	<b>~</b>	>	~
Alternative energy	'		
The applicant must install a photovoltaic system as part of the development. The applicant must connect this system to the development's electrical system.	<ul> <li>✓</li> </ul>	~	~
The photovolatic system must consist of:			
<ul> <li>photovolatic collectors with the capacity to generate at least 20 peak kilowatts of electricity, installed at an angle between 10 degrees and 25 degrees to the horizontal facing east</li> </ul>	<b>~</b>	<b>~</b>	<b>~</b>
Other		•	
The applicant must install a gas cooktop & gas oven in the kitchen of the dwelling.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		<b>~</b>	

### 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.

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