

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

Single Dwelling

Certificate number: 1787677S

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: Monday, 17 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.



Project summary		
Project name	2503688 - Maxwell	
Street address	200 TORRYBURN Road TORRYB	BURN 2421
Local Government Area	Dungog Shire Council	
Plan type and plan number	Deposited Plan DP785703	
Lot no.	41	
Section no.	-	
Project type	dwelling house (detached) - second	dary dwelling
No. of bedrooms	2	
Project score		
Water	✓ 40	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 66	Target 66
Materials	✓ 22	Target n/a

Certificate Prepared by

Name / Company Name: Sorensen Design

ABN (if applicable):

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Description of project

Project address			
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Street address	200 TORRYBURN Road TORRYBURN 2421		
Local Government Area	Dungog Shire Council		
Plan type and plan number	Deposited Plan DP785703		
Lot no.	41		
Section no.	-		
Project type			
Project type dwelling house (detached) - secondary dwelling			
No. of bedrooms 2			
Site details			
Site area (m²)	101171		
Roof area (m²)	129		
Conditioned floor area (m²)	66.78		
Unconditioned floor area (m²)	19.0		
Total area of garden and lawn (m²)	10		
Roof area of the existing dwelling (m²)	170		
Number of bedrooms in the existing dwelling	3		

Assessor details and therm	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		
1		
Water	40	Target 40
Thermal Performance	✓ 40 ✓ Pass	Target 40 Target Pass
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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 10 square metres of the site.	~	~	
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 4 star in each toilet in the development.		V	~
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 1200 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 60 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		-	V
Private dam			

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must connect the development to a private dam with a surface area no greater than 2280 square metres, and a volume of at least 2.75 cubic metres. The connection must meet the requirements of all applicable regulatory authorities.	~	~	>
The applicant must configure the dam to collect runoff from:			
at least 10000 square metres of pervious catchment area		~	V
The applicant must connect the dam to:			
 at least one outdoor tap in the development (Note: NSWHealth does not recommend that private dam water be used to irrigate edible plants which are consumed raw.) 		-	-

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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 - suspended floor above enclosed subfloor, hard wood; frame: timber - untreated softwood.	66.7	2 (or 2.7 including construction) (down);not specified	nil	subfloor wall insulation: None
external wall: framed (solid or reconstituted timber weatherboard); frame: timber - untreated softwood.	all external walls	3.00 (or 3.50 including construction);not specified	nil	wall colour: please select
internal wall: plasterboard; frame: timber - untreated softwood.	85.6	not specified	nil	

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Construction	Area - m²	Additional insulation required	Options to address thermal bridging	Other specifications
ceiling and roof - flat ceiling / pitched roof, framed - metal roof, timber - untreated softwood.	128.7	ceiling: 3.5 (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	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 • 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 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 .	~	>	~

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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.	~	V	~
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.	~	V	~
• 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	
East facing						
W01	1200.00	1200.00	aluminium, single glazed (U-value: <=2.5, SHGC: 0.33 - 0.40)	solid overhang 1800 mm, 1800 mm above head of window or glazed door	not overshadowed	
W02	1200.00	1200.00	aluminium, single glazed (U-value: <=2.5, SHGC: 0.27 - 0.33)	solid overhang 1800 mm, 1800 mm above head of window or glazed door	not overshadowed	
West facing						
W05	1200.00	1200.00	aluminium, single glazed (U-value: <=2.5, SHGC: 0.27 - 0.33)	solid overhang 1800 mm, 300 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
W06	1200.00	1200.00	aluminium, single glazed (U-value: <=2.5, SHGC: 0.27 - 0.33)	solid overhang 1800 mm, 300 mm above head of window or glazed door	not overshadowed
W07	1200.00	1200.00	aluminium, single glazed (U-value: <=2.5, SHGC: 0.33 - 0.40)	solid overhang 1800 mm, 300 mm above head of window or glazed door	not overshadowed

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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 storage with a performance of 4.5 stars.	•	~	~
Cooling system	_		
The living areas must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		~	~
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: 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.		~	~
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:			1
At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off		-	~
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		-	-
Laundry: natural ventilation only, or no laundry; Operation control: n/a		-	-
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			

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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.	~	>	~
Other			
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

BASIX

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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