

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

Single Dwelling

Certificate number: 1329087S 03

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

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Date of issue: Thursday, 25 August 2022

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary					
Project name	Queen Street Dwellin	Queen Street Dwelling One_03			
Street address	6 Queen Street Gulge	ong 2852			
Local Government Area	Mid-Western Regiona	al Council			
Plan type and plan number	deposited 1285405				
Lot no.	2				
Section no.	-	-			
Project type	separate dwelling ho	separate dwelling house			
No. of bedrooms	3	3			
Project score					
Water	3 0	Target 30			
Thermal Comfort	✓ Pass	Target Pass			
Energy	✓ 47	Target 45			

Certificate	Prepared	by
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Name / Company Name: SUNRAI DESIGNS

ABN (if applicable): 92439450078

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Description of project

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Project address	
Project name	Queen Street Dwelling One_03
Street address	6 Queen Street Gulgong 2852
Local Government Area	Mid-Western Regional Council
Plan type and plan number	Deposited Plan 1285405
Lot no.	2
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	3
Site details	
Site area (m²)	520
Roof area (m²)	264
Conditioned floor area (m2)	141.6
Unconditioned floor area (m2)	18.3
Total area of garden and lawn (m2)	278

Assessor details and thermal lo	ads	
Assessor number	n/a	
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	
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	√ 30	Target 30
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 47	Target 45

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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 50 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 5 star in each toilet in the development.		~	V
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 2000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	V	~	~
The applicant must configure the rainwater tank to collect rain runoff from at least 256 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	V
The applicant must connect the rainwater tank to:			
all toilets in the development		~	V
 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.) 		✓	V

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Thermal Comfort Commitments S		Show on CC/CDC plans & specs	Certifier check
General features			
The dwelling must not have more than 2 storeys.	V	~	-
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	V	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.		V	-
The dwelling must not contain third level habitable attic room.		V	-
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.	V	-	~

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.20 (or 2.60 including construction)	
internal wall shared with garage - plasterboard	nil	
ceiling and roof - flat ceiling / pitched roof	ceiling: 2.95 (up), roof: foil backed blanket (55 mm)	unventilated; dark (solar absorptance > 0.70)
ceiling and roof - raked ceiling / pitched or skillion roof, framed	ceiling: 3.24 (up), roof: foil backed blanket (55 mm)	framed; dark (solar absorptance > 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.			

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Windows, 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.	~	<u> </u>	V
The following requirements must also be satisfied in relation to each window and glazed door:		<u> </u>	V
• For the following glass and frame types, the certifier check can be performed by visual inspection.			
- Aluminium single clear			
- Aluminium double (air) clear			
- Timber/uPVC/fibreglass single clear			
- Timber/uPVC/fibreglass double (air) clear			
 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. 	V	~	-
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 (square metres)	Туре	Shading device
S01	1.62	timber, low-E/double/argon fill	no shading

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North facing					
W02	1200	2200	aluminium, single, clear	verandah 4300 mm, 3200 mm above base of window or glazed door	not overshadowed
W13	2100	3300	aluminium, single, clear	verandah 4300 mm, 3200 mm above base of window or glazed door	not overshadowed

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W01	500	6400	aluminium, single, clear	verandah 4300 mm, 3200 mm above base of window or glazed door	not overshadowed
East facing					
W07	1200	1500	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	2-4 m high, 2 m away
W04	900	900	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	2-4 m high, 2 m away
W06	1200	1500	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	2-4 m high, 2 m away
W05	1200	1500	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	2-4 m high, 2 m away
W03	900	600	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	2-4 m high, 2 m away
South facing					
W08	1500	750	aluminium, single, clear	verandah 1800 mm, 2100 mm above base of window or glazed door	not overshadowed
W09	1500	750	aluminium, single, clear	verandah 1800 mm, 2100 mm above base of window or glazed door	not overshadowed
West facing					
W12	1500	1500	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	not overshadowed
W11	600	1500	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	not overshadowed
W10	1500	1500	aluminium, single, clear	eave 450 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 instantaneous.	V	~	~
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 + 1-phase airconditioning; Energy rating: 7 star (cold zone)		~	~
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: ceiling fans + 1-phase airconditioning; Energy rating: 7 star (cold zone)		V	V
The cooling system must provide for day/night zoning between living areas and bedrooms.		V	V
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; Energy rating: 7 star (cold zone)		~	~
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 7 star (cold zone)		~	V
The heating system must provide for day/night zoning between living areas and bedrooms.		•	V
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		•	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	V
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	V
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 3 of the bedrooms / study; dedicated		_	V

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least 1 of the living / dining rooms; dedicated		~	~
• the kitchen; dedicated		•	-
all bathrooms/toilets; dedicated		✓	-
the laundry; dedicated		•	-
all hallways; dedicated		•	V
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	~	→	~
The applicant must install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	~
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		~	
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.			

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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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