BASIX[°]Certificate

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

Single Dwelling

Certificate number: 1297198S_02

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: Tuesday, 25 October 2022 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project summary				
Project name	1306_02			
Street address	252 Henry Lawson Drive Bombira 2850			
Local Government Area	Mid-Western Regional Council			
Plan type and plan number	deposited 1166658			
Lot no.	1			
Section no.	-			
Project type	separate dwelling house			
No. of bedrooms	4			
Project score				
Water	V 40 Target 30			
Thermal Comfort	V Pass Target Pass			
Energy	V 92 Target 40			

Certificate	Prepared	by

Name / Company Name: On Point Building Design

ABN (if applicable): 54902270203

Description of project

Project address

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Street address	252 Henry Lawson Drive Bombira 2850
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Plan type and plan number	Deposited Plan 1166658
Lot no.	1
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	4
Site details	
Site area (m²)	39800
Roof area (m ²)	511
Conditioned floor area (m2)	250.0
Unconditioned floor area (m2)	15.0
Total area of garden and lawn (m2)	2000

Assessor details and thermal lo	bads
Assessor number	n/a
Certificate number	n/a
Climate zone	n/a
Area adjusted cooling load (MJ/m ² .year)	n/a
Area adjusted heating load (MJ/m ² .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 40 Target 30
Thermal Comfort	V Pass Target Pass
Energy	92 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 (> 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 40000 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 511 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		 Image: A set of the set of the	~
 the cold water tap that supplies each clothes washer in the development 		~	~
 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.) 		~	~
all hot water systems in the development		~	-
all indoor cold water taps (not including taps that supply clothes washers) in the development		~	_
 a tap that is located within 10 metres of the swimming pool in the development 			

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Swimming pool			
The swimming pool must not have a volume greater than 30.45 kilolitres.	 ✓ 	~	
The swimming pool must have a pool cover.		~	
The swimming pool must be outdoors.	 ✓ 	~	

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.	~	v	~

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	1 (slab edge)	in-slab heating system
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.

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.	~	 Image: A set of the set of the	~
The following requirements must also be satisfied in relation to each window and glazed door:	~	 Image: A set of the set of the	~
• 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			
• Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		~	~
• Unless they have adjustable shading, pergolas must have fixed battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not exceed the height of the battens.		~	~

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North facing					
W02	1800	1800	aluminium, single, clear	eave 750 mm, 50 mm above head of window or glazed door	not overshadowed
W03	2400	5700	aluminium, single, clear	eave 4600 mm, 1300 mm above head of window or glazed door	not overshadowed
W01	1800	1800	aluminium, single, clear	eave 750 mm, 50 mm above head of window or glazed door	not overshadowed
W04	900	5700	aluminium, single, clear	eave 4600 mm, 200 mm above head of window or glazed door	not overshadowed

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W06	1800	900	aluminium, single, clear	eave 750 mm, 50 mm above head of window or glazed door	not overshadowed
W05	1500	2400	aluminium, single, clear	pergola (fixed battens) 4000 mm, 50 mm above head of window or glazed door	not overshadowed
W07	1800	2600	aluminium, single, clear	eave 750 mm, 50 mm above head of window or glazed door	not overshadowed
East facing					
W08	1800	1800	aluminium, single, clear	eave 750 mm, 50 mm above head of window or glazed door	not overshadowed
South facing					
W12	2100	1800	aluminium, single, clear	eave 750 mm, 50 mm above head of window or glazed door	not overshadowed
W09	2100	1800	aluminium, single, clear	eave 750 mm, 50 mm above head of window or glazed door	not overshadowed
W11	2100	2600	aluminium, single, clear	eave 750 mm, 50 mm above head of window or glazed door	not overshadowed
W13	2100	1800	aluminium, single, clear	eave 750 mm, 50 mm above head of window or glazed door	not overshadowed
W10	2100	2600	aluminium, single, clear	eave 750 mm, 50 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.	~	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: 1-phase airconditioning; Energy rating: 4.5 Star (old label)		 Image: A set of the set of the	~
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 4.5 Star (old label)		v	~
The cooling system must provide for day/night zoning between living areas and bedrooms.		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: 4.5 Star (old label)		 Image: A set of the set of the	~
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: 4.5 Star (old label)		 Image: A set of the set of the	~
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		~	~
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		 Image: A set of the set of the	~
Laundry: natural ventilation only, or no laundry; Operation control: n/a		 Image: A second s	~
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 4 of the bedrooms / study; dedicated 		~	~

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
 at least 3 of the living / dining rooms; dedicated 		~	~
the kitchen; dedicated		 Image: A set of the set of the	~
all bathrooms/toilets; dedicated		 Image: A second s	~
the laundry; dedicated		 Image: A second s	~
all hallways; dedicated		 Image: A second s	~
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.	~	~	~
Swimming pool			
The applicant must install the following heating system for the swimming pool in the development (or alternatively must not install any heating system for the swimming pool): solar only		~	
The applicant must install a timer for the swimming pool pump in the development.		~	
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 10 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	~	 Image: A set of the set of the	~
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 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.