BASIX[°]Certificate

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

Single Dwelling

Certificate number: 1300915S_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: Wednesday, 07 September 2022 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project summary				
Project name	1293_02			
Street address	248 Grattai Creek Road Grattai 2850			
Local Government Area	Mid-Western Regional Council			
Plan type and plan number	deposited 756921			
Lot no.	99			
Section no.	-			
Project type	separate dwelling house			
No. of bedrooms	3			
Project score				
Water	V 76 Target 30			
Thermal Comfort	V Pass Target Pass			
Energy	✓ 100 Target 40			

Name / Company Name: On Point Building Design

ABN (if applicable): 54902270203

Description of project

Project address

1293_02
248 Grattai Creek Road Grattai 2850
Mid-Western Regional Council
Deposited Plan 756921
99
-
separate dwelling house
3
450000
674
190.0
20.0
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	76	Target 30
Thermal Comfort	🎺 Pass	Target Pass
Energy	V 100	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 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.		 Image: A set of the set of the	
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 100000 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 674 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		 Image: A set of the set of the	~
The applicant must connect the rainwater tank to:			
all toilets in the development		 	~
 the cold water tap that supplies each clothes washer in the development 		 Image: A second s	~
 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.) 		 Image: A second s	~
all hot water systems in the development		 Image: A second s	~
 all indoor cold water taps (not including taps that supply clothes washers) in the development 			

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 - 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.

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.	~	~	~
The following requirements must also be satisfied in relation to each window and glazed door:	~	~	<
• 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			

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North facing					
W01	1500	1800	aluminium, double (air), clear	verandah 2500 mm, 1800 mm above base of window or glazed door	not overshadowed
W04	1200	3000	aluminium, double (air), clear	verandah 2500 mm, 1500 mm above base of window or glazed door	not overshadowed
W05	2100	1500	aluminium, double (air), clear	verandah 2500 mm, 2400 mm above base of window or glazed door	not overshadowed
W02	600	1800	aluminium, double (air), clear	verandah 2500 mm, 900 mm above base of window or glazed door	not overshadowed
W03	1500	1800	aluminium, double (air), clear	verandah 2500 mm, 1800 mm above base of window or glazed door	not overshadowed
East facing					
W07	800	3000	aluminium, double (air), clear	eave 4000 mm, 600 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
W08	2100	3000	aluminium, double (air), clear	eave 4000 mm, 2000 mm above head of window or glazed door	not overshadowed
W09	800	3000	aluminium, double (air), clear	eave 4000 mm, 600 mm above head of window or glazed door	not overshadowed
W06	2100	3000	aluminium, double (air), clear	eave 4000 mm, 2000 mm above head of window or glazed door	not overshadowed
South facing					
W11	2100	1400	aluminium, double (air), clear	verandah 2500 mm, 2400 mm above base of window or glazed door	not overshadowed
W15	2100	1100	aluminium, double (air), clear	verandah 2500 mm, 2400 mm above base of window or glazed door	not overshadowed
W12	2100	3200	aluminium, double (air), clear	verandah 2500 mm, 2400 mm above base of window or glazed door	not overshadowed
W14	1500	2600	aluminium, double (air), clear	verandah 2500 mm, 1800 mm above base of window or glazed door	not overshadowed
W10	2100	1400	aluminium, double (air), clear	verandah 2500 mm, 2400 mm above base of window or glazed door	not overshadowed
W13	2100	900	aluminium, double (air), clear	verandah 2500 mm, 2400 mm above base of window or glazed door	not overshadowed
West facing					
W16	2100	920	aluminium, double (air), clear	verandah 2500 mm, 2400 mm above base 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: electric heat pump with a performance of 36 to 40 STCs or better.	~	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)		~	~
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)		~	~
The cooling system must provide for day/night zoning between living areas and bedrooms.		~	~
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)		~	~
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)		~	~
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 set of the set of the	~
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 		~	-

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		✓	~
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 2 bathroom(s)/toilet(s) in the development for natural lighting.	v	~	~
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 12 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	~	~	~

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.