BASIX[°]Certificate

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

Single Dwelling

Certificate number: 1266843S

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: Friday, 10 December 2021 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project summary				
Project name	DWELLING @ LOT2 10 FERN CREEK ROAD WARRIEWOOD			
Street address	10 FERN CREEK Road WARRIEWOOD 2102			
Local Government Area	Northern Beaches Council			
Plan type and plan number	deposited 0000000			
Lot no.	2			
Section no.	-			
Project type	separate dwelling house			
No. of bedrooms	3			
Project score				
Water	V 40 Target 40			
Thermal Comfort	V Pass Target Pass			
Energy	✓ 53 Target 50			

Certificate	Prepared	by

Name / Company Name: Outsource Ideas (ss)

ABN (if applicable): 12130092661

Description of project

Project addres	SS
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DWELLING @ LOT2 10 FERN CREEK ROAD WARRIEWOOD
10 FERN CREEK Road WARRIEWOOD 2102
Northern Beaches Council
Deposited Plan 0000000
2
-
separate dwelling house
3
460
130
146.0
14.0
60

Assessor details and thermal loads							
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/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	40	Target 40					
Thermal Comfort	V Pass	Target Pass					
Energy	53	Target 50					

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 3 star (> 4.5 but <= 6 L/min) 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 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.	~	~	~
The applicant must configure the rainwater tank to collect rain runoff from at least 100 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:			
 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.) 		~	~

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	nil	
floor - suspended floor above garage, framed	nil	
external wall - brick veneer	2.86 (or 3.40 including construction)	
internal wall shared with garage - plasterboard	nil	
ceiling and roof - flat ceiling / pitched roof	ceiling: 4.5 (up), roof: foil/sarking	unventilated; medium (solar absorptance 0.475-0.70)

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						
• 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	North facing						
W16	2700	5300	aluminium, single, clear	pergola (fixed battens) 2700 mm, 0 mm above head of window or glazed door	not overshadowed		
W17	1500	1500	aluminium, single, clear	none	not overshadowed		
W18	800	9270	aluminium, single, clear	none	not overshadowed		
W05	900	1500	aluminium, single, clear	eave 600 mm, 240 mm above head of window or glazed door	not overshadowed		
W04	1500	1500	aluminium, single, clear	eave 600 mm, 240 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
East facing					
W06	1500	1500	aluminium, single, clear	eave 600 mm, 240 mm above head of window or glazed door	not overshadowed
W07	1500	1690	aluminium, single, clear	eave 600 mm, 240 mm above head of window or glazed door	not overshadowed
W08	1500	2087	aluminium, single, clear	eave 600 mm, 240 mm above head of window or glazed door	not overshadowed
W09	1500	1453	aluminium, single, clear	eave 600 mm, 240 mm above head of window or glazed door	not overshadowed
W10	1500	1500	aluminium, single, clear	eave 600 mm, 240 mm above head of window or glazed door	not overshadowed
W19	1500	1200	aluminium, single, clear	none	not overshadowed
W20	2700	2170	aluminium, single, clear	none	not overshadowed
South facing					
W12	1500	1550	aluminium, single, clear	eave 600 mm, 240 mm above head of window or glazed door	not overshadowed
W13	1500	1500	aluminium, single, clear	eave 600 mm, 240 mm above head of window or glazed door	not overshadowed
W22	800	1800	aluminium, single, clear	none	not overshadowed
W21	900	1352	aluminium, single, clear	solid overhang 200 mm, 0 mm above head of window or glazed door	not overshadowed
West facing					
W01	2800	1387	aluminium, single, clear	eave 600 mm, 140 mm above head of window or glazed door	not overshadowed
W02	2800	3024	aluminium, single, clear	solid overhang 1190 mm, 140 mm above head of window or glazed door	not overshadowed
W03	1500	1500	aluminium, single, clear	eave 600 mm, 140 mm above head of window or glazed door	not overshadowed
W14	1500	1500	aluminium, single, clear	none	not overshadowed

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	Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
Ĩ	W15	900	1021	aluminium, single, clear	solid overhang 200 mm, 0 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 5 stars.	~	~	~
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: 2.5 star (average zone)		~	~
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: 2.5 star (average zone)		~	~
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: 2.5 star (average 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: 2.5 star (average zone)		~	~
The heating system must provide for day/night zoning between living areas and bedrooms.		>	>
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 second s	~
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	v

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		v	~
all bathrooms/toilets; dedicated		~	~
the laundry; dedicated		~	_
all hallways; dedicated		~	
Natural lighting			
he applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	~	~	~
he applicant must install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	~
Dther	·		
he applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		~	
he applicant must install a fixed outdoor clothes drying line as part of the development.		<u> </u>	

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.