

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

Single Dwelling

Certificate number: 1031559S

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 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Thursday, 08 August 2019

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



Project summary				
Project name	307 Whale Beach Road			
Street address	307 Whale Beach Road Palm Beach 2108			
Local Government Area	Northern Beaches Council			
Plan type and plan number	deposited 16362			
Lot no.	233			
Section no.	-			
Project type	separate dwelling house			
No. of bedrooms	1			
Project score				
Water	✓ 42 Target 40			
Thermal Comfort	✓ Pass Target Pass			
Energy	✓ 86 Target 50			

Certificate Prepared by

Name / Company Name: Stephen Sainsbury architect

ABN (if applicable): 81186849757

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Description of project

Project address			
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Plan type and plan number	Deposited Plan 16362		
Lot no.	233		
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Project type			
Project type	separate dwelling house		
No. of bedrooms	1		
Site details			
Site area (m²)	671		
Roof area (m²)	42		
Conditioned floor area (m2)	36.8		
Unconditioned floor area (m2)	0.0		
Total area of garden and lawn (m2)	635		

Assessor details and thermal loads							
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						
Project score							
Water	✓ 42	Target 40					
Thermal Comfort	✓ Pass	Target Pass					
Energy	₩ 86	Target 50					

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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 620 square metres of the site.	~	~	
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.		V	V
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		V	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		V	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 5000 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 36 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	V
The applicant must connect the rainwater tank to:			
all toilets in the development		✓	V
the cold water tap that supplies each clothes washer 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	V

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the development.		•	~

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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.	V	~	-
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	~	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	~	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	~	V

Construction	Additional insulation required (R-Value)	Other specifications
floor - suspended floor above open subfloor, AAC panel on frame (75 mm)	1.12 (or 2 including construction) (down)	
external wall - external insulated façade system (EIFS) (façade panel:76 mm)	0.89 (or 3.40 including construction)	
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ceiling and roof - raked ceiling / pitched or skillion roof, framed	ceiling: 5 (up), roof: foil backed blanket (100 mm)	framed; light (solar absorptance < 0.475)

Note • Ir	Insulation specified in this	Certificate must be installed in	accordance with Part 3.12.1.1	of the Building Code of Australia.
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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.	~	~	V
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			
 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. 	-	~	-

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North facing					
W1-01	860	590	aluminium, single, clear	eave 250 mm, 100 mm above head of window or glazed door	>4 m high, 8-12 m away
W1-02	860	590	aluminium, single, clear	eave 250 mm, 100 mm above head of window or glazed door	>4 m high, 8-12 m away
W3-01	305	1640	aluminium, single, clear	eave 1200 mm, 100 mm above head of window or glazed door	>4 m high, 8-12 m away
East facing					
D1-01	1810	1300	aluminium, single, clear	awning (adjustable) 1200 mm, 2000 mm above base of window or glazed door	>4 m high, 2-5 m away
W2-01	520	1640	aluminium, single, clear	eave 1200 mm, 200 mm above head 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
W2-02	520	1640	aluminium, single, clear	eave 1200 mm, 200 mm above head of window or glazed door	not overshadowed
W8-05	1810	1300	aluminium, single, clear	awning (adjustable) 1200 mm, 2000 mm above base of window or glazed door	>4 m high, 2-5 m away
South facing					
D1-02	1810	1300	aluminium, single, clear	awning (adjustable) 1200 mm, 2000 mm above base of window or glazed door	>4 m high, <2 m away
W3-02	305	1640	aluminium, single, clear	eave 1200 mm, 100 mm above head of window or glazed door	>4 m high, <2 m away
W4-02	80	1300	aluminium, single, clear	eave 1200 mm, 100 mm above head of window or glazed door	>4 m high, <2 m away
W8-06	1810	1300	aluminium, single, clear	awning (adjustable) 1200 mm, 2000 mm above base of window or glazed door	>4 m high, <2 m away
West facing					
W1-03	860	590	aluminium, single, clear	eave 250 mm, 300 mm above head of window or glazed door	>4 m high, <2 m away
W1-04	860	590	aluminium, single, clear	eave 250 mm, 300 mm above head of window or glazed door	>4 m high, <2 m away

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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.	•	~	-
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: ceiling fans; Energy rating: n/a		~	~
The living areas must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		✓	V
Heating system			
The living areas must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		-	V
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		~	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, not ducted; Operation control: manual switch on/off		~	V
Laundry: natural ventilation only, or no laundry; Operation control: n/a		~	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 1 of the bedrooms / study; dedicated			
a the kitchen; dedicated		~	
the kitchen; dedicated		~	•
all bathrooms/toilets; dedicated			

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
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 1 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	~
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 4.5 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	~	~	~
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

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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