

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

Single Dwelling

Certificate number: 1276058S

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

BASIX

Date of issue: Saturday, 05 February 2022

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



Project summary				
Project name	Scotland Island House			
Street address	17 Thompson Street Scotland Island 2105			
Local Government Area	Northern Beaches Council			
Plan type and plan number	deposited 12749			
Lot no.	242			
Section no.	-			
Project type	separate dwelling house			
No. of bedrooms	3			
Project score				
Water	✓ 83 Target 40			
Thermal Comfort	✓ Pass Target Pass			
Energy	✓ 51 Target 50			

Certificate Prepared by
Name / Company Name: James McHugh
ABN (if applicable): N/A

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Description of project

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Project address	
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Local Government Area	Northern Beaches Council
Plan type and plan number	Deposited Plan 12749
Lot no.	242
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	3
Site details	
Site area (m²)	1378
Roof area (m²)	170
Conditioned floor area (m2)	178.0
Unconditioned floor area (m2)	9.5
Total area of garden and lawn (m2)	71

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	₩ 83	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	√ 51	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 71 square metres of the site.	~	~	
Fixtures			
The applicant must install showerheads with a minimum rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development.		~	V
The applicant must install a toilet flushing system with a minimum rating of 1 star in each toilet in the development.		~	V
The applicant must install taps with a minimum rating of 3 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 3 star in each bathroom in the development.		V	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 45000 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 170 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		~	~
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		~	V

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
all indoor cold water taps (not including taps that supply clothes washers) in the development		~	V

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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	<u> </u>	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	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 - suspended floor above open subfloor, 93.5 square metres, framed	0.8 (or 1.5 including construction) (down)	
floor - above habitable rooms or mezzanine, 67.3 square metres, framed	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 4 (up), roof: foil/sarking	framed; 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.

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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	~	V
The following requirements must also be satisfied in relation to each window and glazed door:	V	~	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			
 Vertical external louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed. 		•	V
 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	•	V

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North-East facing					
W08	530	3000	aluminium, single, clear	eave 3365 mm, 0 mm above head of window or glazed door	not overshadowed
W09	2100	3000	aluminium, single, clear	external louvre/vertical blind (adjustable)	2-4 m high, 5-8 m away
W10	2100	3000	aluminium, single, clear	external louvre/vertical blind (adjustable)	not overshadowed
W11	2100	3000	aluminium, single, clear	external louvre/vertical blind (adjustable)	>4 m high, 5-8 m away
W12	1200	2050	aluminium, single, clear	eave 500 mm, 0 mm above head of window or glazed door	>4 m high, 5-8 m away

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W13	2100	420	aluminium, single, clear	eave 3550 mm, 415 mm above head of window or glazed door	not overshadowed
W14	2100	420	aluminium, single, clear	eave 3550 mm, 415 mm above head of window or glazed door	not overshadowed
South-East facing					
W15	2100	420	aluminium, single, clear	eave 150 mm, 0 mm above head of window or glazed door	>4 m high, 8-12 m away
W16	2100	420	aluminium, single, clear	eave 150 mm, 0 mm above head of window or glazed door	>4 m high, 8-12 m away
W17	2100	420	aluminium, single, clear	eave 580 mm, 380 mm above head of window or glazed door	>4 m high, 5-8 m away
W18	2100	420	aluminium, single, clear	eave 580 mm, 380 mm above head of window or glazed door	>4 m high, 5-8 m away
South-West facing					
W19	2100	3000	aluminium, single, clear	external louvre/vertical blind (adjustable)	>4 m high, 8-12 m away
W20	2100	420	aluminium, single, clear	eave 700 mm, 415 mm above head of window or glazed door	>4 m high, 2-5 m away
W21	530	3000	aluminium, single, clear	eave 6230 mm, 0 mm above head of window or glazed door	>4 m high, 8-12 m away
North-West facing					
W01	2100	2700	aluminium, single, clear	awning (adjustable) 3000 mm, 2100 mm above base of window or glazed door	not overshadowed
W02	2100	420	aluminium, single, clear	awning (adjustable) 3000 mm, 2100 mm above base of window or glazed door	not overshadowed
W03	700	8100	aluminium, single, clear	eave 1500 mm, 200 mm above head of window or glazed door	>4 m high, 5-8 m away
W04	1200	5400	aluminium, single, clear	eave 750 mm, 0 mm above head of window or glazed door	>4 m high, 5-8 m away

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W05	1200	5400	aluminium, single, clear	eave 750 mm, 0 mm above head of window or glazed door	>4 m high, 5-8 m away
W06	1200	2100	aluminium, single, clear	awning (adjustable) 3000 mm, 1200 mm above base of window or glazed door	>4 m high, 8-12 m away
W07	2100	2700	aluminium, single, clear	external louvre/vertical blind (adjustable)	>4 m high, 8-12 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: electric heat pump with a performance of 26 to 30 STCs or better.	•	~	~
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; Energy rating: n/a		→	~
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		✓	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: wood heater; Energy rating: n/a		✓	V
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		•	V
The wood heater must have a compliance plate confirming that it complies with the relevant Australian standards, and must be installe in accordance with the requirements of all applicable regulatory authorities.	d		~
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			U
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		•	-
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		~	-
at least 2 of the living / dining rooms; dedicated			

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
the kitchen; dedicated		~	~
all bathrooms/toilets; dedicated		V	-
the laundry; dedicated		~	-
all hallways; dedicated		~	V
Natural lighting			
he applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.		V	-
The applicant must install a window and/or skylight in 2 bathroom(s)/toilet(s) in the development for natural lighting.		~	~
Other			
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.		~	
The applicant must install a fixed indoor or sheltered 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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