

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

Single Dwelling

Certificate number: 1276058S_03

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

This certificate is a revision of certificate number 1276058S lodged with the consent authority or certifier on with application DA2022/0196.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Tuesday, 28 November 2023

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



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Project summary				
Project name	Scotland Island House_02_03			
Street address	17 THOMPSON STREET SCOTLAN 2105	ND ISLAND		
Local Government Area	Northern Beaches Council			
Plan type and plan number	Deposited Plan 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	✓ 50	Target 50		

Certificate Prepared by
Name / Company Name: james McHugh
ABN (if applicable):

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Description of project

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Project name	Scotland Island House_02_03				
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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)	195.0				
Unconditioned floor area (m²)	0.0				
Total area of garden and lawn (m²)	71				
Roof area of the existing dwelling (m²)	0				

Assessor details and therma	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							
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	✓ 50	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.		~	~
The applicant must install a toilet flushing system with a minimum rating of 1 star in each toilet in the development.		~	~
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.		~	
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.	-	~	~
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).		~	~
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		~	V

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
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		~	-

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Do-it-yourself Method			1
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.	~	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.	~	~	~

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
The following requirements must also be satisfied in relation to each window and glazed door:	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			
 For other glass or frame types, each window and glazed door must be accompanied with certification showing a U value no greater than that listed and a Solar Heat Gain Coefficient (SHGC) within the range of those listed. Total system U values and SHGC must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. Frame and glass types shown in the table below are for reference only. 			~
 Vertical external louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed. 		V	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. 	~	~	~

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing		
North-East facing							
WU/10	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	external louvre/vertical blind (fixed)	not overshadowed		

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
WL/05	1200.00	2050.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	eave 450 mm, 0 mm above head of window or glazed door	not overshadowed
WL/08	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	external louvre/vertical blind (fixed)	not overshadowed
DU/05	2100.00	3000.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	external louvre/vertical blind (adjustable)	not overshadowed
DU/04	2100.00	3000.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	external louvre/vertical blind (adjustable)	2-4 m high, 5-8 m away
DL/02	2100.00	3000.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	external louvre/vertical blind (adjustable)	>4 m high, 5-8 m away
WU/06	530.00	3000.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	eave 3365 mm, 0 mm above head of window or glazed door	not overshadowed
WU/14	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	none	2-4 m high, 2-5 m away
South-East facing					
WU/12	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	none	>4 m high, 5-8 m away
WL/07	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	none	>4 m high, 8-12 m away
WL/06	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	none	>4 m high, 8-12 m away
WU/13	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	none	>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	
WL/09	420.00	2100.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	external louvre/vertical blind (fixed)	not overshadowed	
WL/10	420.00	2100.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	external louvre/vertical blind (fixed)	not overshadowed	
South-West facing						
DU/03	2100.00	3000.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	external louvre/vertical blind (adjustable)	>4 m high, 8-12 m away	
WU/15	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	eave 700 mm, 415 mm above head of window or glazed door	>4 m high, 2-5 m away	
WU/02	530.00	3000.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	eave 6230 mm, 0 mm above head of window or glazed door	>4 m high, 8-12 m away	
WU/11	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	none	2-4 m high, 2-5 m away	
WL/11	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	none	>4 m high, 2-5 m away	
North-West facing						
WU/07-08	1200.00	5400.00	U-value: 5.4, SHGC: 0.441 - 0.539 (aluminium, single, Hi-Tsol Low-e)	eave 650 mm, 0 mm above head of window or glazed door	>4 m high, 5-8 m away	
WL/04	2100.00	2700.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	solid overhang 3100 mm, 440 mm above head of window or glazed door	ead of	
DU/01	2100.00	2700.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	awning (adjustable) 3000 mm, 2100 mm above base 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
WU/09	1200.00	2100.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	awning (adjustable) 3000 mm, 1200 mm above base of window or glazed door	>4 m high, 8-12 m away
WU/16	2100.00	420.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	awning (adjustable) 3000 mm, 2100 mm above base of window or glazed door	not overshadowed
WU/03-05	700.00	8100.00	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	eave 1500 mm, 200 mm above head of window or glazed door	>4 m high, 5-8 m away
WL/02-03	1200.00	5400.00	U-value: 5.4, SHGC: 0.441 - 0.539 (aluminium, single, Hi-Tsol Low-e)	eave 650 mm, 0 mm above head of window or glazed door	>4 m high, 5-8 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		>	>
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		~	~
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		~	~
The wood heater must have a compliance plate confirming that it complies with the relevant Australian standards, and must be installed in accordance with the requirements of all applicable regulatory authorities.			~
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		~	~
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		<u> </u>	~
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:			

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least 3 of the bedrooms / study; dedicated		>	~
at least 2 of the living / dining rooms; dedicated		-	V
• the kitchen; dedicated		~	V
all bathrooms/toilets; dedicated		~	V
the laundry; dedicated		V	V
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.		~	~
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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