BASIX°Certificate

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

Alterations and Additions

Certificate number: A361125

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 Alterations and Additions Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Thursday, 17, October 2019

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



Description of project

Project address	
Project name	Brown House
Street address	55 Tasman Road Avalon Beach 2107
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 414306
Lot number	С
Section number	
Project type	
Dwelling type	Separate dwelling house
Type of alteration and addition	My renovation work is valued at \$50,000 or more, and includes a pool (and/or spa).

Certificate Prepared by (please complete before submitting to Council or PCA)

Name / Company Name: Rachel Hudson

ABN (if applicable): N/A

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Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank			
The applicant must install a rainwater tank of at least 1558 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 rainwater runoff from at least 260 square metres of roof area.		✓	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool.		✓	✓
Outdoor swimming pool		-	
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 45 kilolitres.	✓	✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must install the following heating system for the swimming pool that is part of this development: solar only.		✓	✓

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Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Lighting			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	~
Fixtures			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	

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Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements			•	'	
The applicant must construct the new or altered the table below, except that a) additional insulat is not required for parts of altered construction v	ion is not required where the area of new constr		√	√	√
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
internal wall shared with garage: plasterboard (R0.36)	nil				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.74 (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 0.70)			

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Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.								✓	~
The following re	equirements i	must also	be satisfi	ed in relation	to each window and glazed door:			✓	✓
have a U-value	and a Solar	Heat Gair	n Coefficie	ent (SHGC) n		d glass may either match the description, or, le below. Total system U-values and SHGCs s.		✓	✓
have a U-value must be calcula	and a Solar ted in accord	Heat Gair dance with	n Coefficie n National	ent (SHGC) n Fenestration	o greater than that listed in the tabl	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		✓	~
					each eave, pergola, verandah, bal nan 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with p	olycarbonate	roof or si	imilar tran	slucent mate	rial must have a shading coefficien	t of less than 0.35.		✓	✓
					window or glazed door above which must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Overshadowing specified in the					t and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows an	d glazed o	doors g	lazing r	equiremen	nts				
	Window / door Orientation Area of Overshadowing Shading device Frame and glass type								
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W1	N	3.2	1580	1000	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W2	N	3.7	3900	2160	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			

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					Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check		
Window / door	Orientation	Area of	Oversha		Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W3	N	4.6	1580	1000	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W4	N	12	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W5	S	2.4	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W6	S	3.4	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W7	S	3.4	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W8	Е	17.3	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W9	E	4.5	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
Skylights									
The applicant r	nust install the	e skylight:	s in accor	dance with th	ne specifications listed in the table b	pelow.	✓	✓	~
The following re	equirements i	must also	be satisfi	ed in relation	to each skylight:			✓	✓
Each skylight may either match the description, or, have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below.					✓	✓			
Skylights glazing requirements									
Skylight number	er Area of of inc. fram		Shading	device	Frame and	glass type			
S1	0.5		no shad	ng	timber, dou	uble clear/air fill, (or U-value: 4.3, SHGC: 0.5)			

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Glazing require	Clazing requirements					
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S2	0.5	no shading	timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			

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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 & 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 for the development may be issued.