BASIX Certificate

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

Alterations and Additions

Certificate number: A293630 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 Alterations and Additions Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

This certificate is a revision of certificate number A293630 lodged with the consent authority or certifier on 20 Oct 2017 with application 0470/17.

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 Sch 1 Cl 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000

Secretary

Date of issue: Thursday, 28, March 2019

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



Description of project

Project address				
Project name	16 Bareena_03			
Street address	16 Bareena Road Avalon Beach 2107			
Local Government Area	Pittwater Council			
Plan type and number	Deposited Plan 21243			
Lot number	26			
Section number	0			
Project type				
Dwelling type	Separate dwelling house			
Type of alteration and addition	My renovation work is valued at \$50,000 or more, and does not include a pool (and/or spa).			

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

Name / Company Name: HOT HOUSE STUDIO

ABN (if applicable): 35505791074

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Fixtures and systems	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: gas instantaneous.	✓	✓	✓
Lighting		1	
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		1	
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 insulation is not required for parts of altered construction versions.	tion is not required where the area of new const		V	√	√
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
internal wall shared with garage: plasterboard (R0.36)	nil				
flat ceiling, pitched roof	ceiling: R1.45 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			
raked ceiling, pitched/skillion roof: framed	ceiling: R1.74 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			

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Glazing requ	uirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	d glazed do	oors							
The applicant r Relevant overs	✓	✓	✓						
The following re	equirements	must also	be satisfi	ed in relatior	n to each window and glazed door:			✓	✓
have a U-value	and a Solar	Heat Gair	n Coefficie	ent (SHGC) r		d glass may either match the description, or, le below. Total system U-values and SHGCs		✓	✓
					f each eave, pergola, verandah, bal than 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
For projections least that show			he ratio of	the projection	on from the wall to the height above	the window or glazed door sill must be at	✓	✓	✓
Pergolas with p	oolycarbonat	e roof or s	imilar tran	slucent mate	erial must have a shading coefficien	t of less than 0.35.		✓	✓
Pergolas with f shades a perpe	ixed battens endicular win	must have dow. The	e battens spacing b	parallel to the etween batte	e window or glazed door above which ens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Overshadowing specified in the					nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows ar	nd glazed	doors g	lazing r	equireme	nts				
Window / door	Orientation		Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W01	S	3.12	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W31	W	0.75	3.67	4.6	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
W03	W	4.56	4.42	4.6	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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Glazing requirements								Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W09	E	2.4	2.54	3.2	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	N	2.69	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	N	2.69	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	N	1.61	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W14	N	1.61	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	S	0.72	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D02	N	19.82	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D03	Е	1.92	3.45	3.2	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W15	N	0.52	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W16	N	0.52	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W17	Е	0.6	3.8	3.2	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W18	Е	0.6	3.8	3.2	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W19a	E	2.04	3.8	3.2	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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Glazing requirements									Certifier Check
Window / door	Orientation	Area of	Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W32	E	0.75	1.32	3.2	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W21	S	3.12	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W22	W	1.2	1.02	6.28	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W23	W	1.2	1.02	6.28	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W24	W	1.2	1.02	6.28	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W25	W	1.2	1.02	6.28	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W26	Е	1.2	1.88	5.14	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W27	E	1.2	1.88	5.14	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W28	E	1.2	1.88	5.14	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W29	Е	1.2	1.88	5.14	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W30	S	2.34	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W33	W	1.95	4.42	4.6	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
Skylights	<u>* </u>	<u> </u>		<u> </u>	•	·			

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Glazing requ	uirements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
The applicant	must install the skyligh	ts in accordance with the specif	ications listed in the table below.	✓	√	V
The following r	requirements must also	be satisfied in relation to each	skylight:		✓	✓
Each skylight r		escription, or, have a U-value a	nd a Solar Heat Gain Coefficient (SHGC) no greater than that listed in		✓	✓
Skylights g	lazing requiremer	nts				
Skylight numb	her Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	1.09	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S2	1.09	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S3	1.09	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S4	1.09	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S5 A-C	3.28	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			

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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.