BASIX Certificate

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

Alterations and Additions

Certificate number: A386251

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: Friday, 14, August 2020

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



Description of project

	Project address								
	Project name	96 Palmgrove Rd							
)	Street address	96 Palmgrove Road Avalon Beach 2107							
	Local Government Area	6 Palmgrove Road Avalon Beach 2107 orthern Beaches Council eposited Plan 16902 32 eparate dwelling house ly renovation work is valued at \$50,000 or more,							
	Plan type and number	Deposited Plan 16902							
	Lot number	96 Palmgrove Road Avalon Beach 2107 Northern Beaches Council							
	Section number								
	Project type								
	Dwelling type	Separate dwelling house							
	Type of alteration and addition								

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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Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Outdoor swimming pool			
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 33.2 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must not incorporate any heating system for the swimming pool that is part of this development.		✓	✓

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Fixtures and systems Show DA P		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 insuling is not required for parts of altered construction	√	√	✓		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
floor above existing dwelling or building.	nil				
external wall: concrete panel/plasterboard (concrete: 155 mm)	R1.38 (or R1.70 including construction)				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
external wall: structural panel system	R1.25 (including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.24 (up), roof: foil backed blanket (75 mm)	dark (solar absorptance > 0.70)			
flat ceiling, flat roof: framed	ceiling: R1.08 (up), roof: foil backed blanket (75 mm)	dark (solar absorptance > 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	ors										
The applicant r Relevant overs	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 r		✓	✓									
have a U-value must be calculated	and a Solar ated in accord	Heat Gair dance with	n Coefficie n National	ent (SHGC) r Fenestration	no greater than that listed in the table	ear 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 han 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓			
For projections least that show			ne ratio of	the projection	on from the wall to the height above	e the window or glazed door sill must be at	✓	✓	✓			
Pergolas with p	oolycarbonate	roof or si	imilar tran	slucent mate	erial must have a shading coefficien	nt of less than 0.35.		✓	✓			
					e window or glazed door above which which such that some 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 a	nd glazed (doors g	lazing r	equireme	nts							
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type						
d001	SE	4.51	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)						
d002	NE	11.67	3.1	2.1	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)						
d003	SE	1.3	6	1	eave/verandah/pergola/balcony	improved aluminium, single clear, (U-value:						

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Glazing requ	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check						
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
					>=900 mm	6.44, SHGC: 0.75)			
w001	SE	2.1	6	1	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w002	NE	2.8	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w003	SE	3.96	1.5	7	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w004	SW	0.56	2.6	3	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w005	SW	0.56	2.6	3	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w101	NE	1.08	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w102	NE	0.44	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w103	SE	0.44	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w104	NE	1.46	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w105	NE	3.06	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w106	NE	4.69	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w107	SE	4.69	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w108	SW	1.12	0	0	eave/verandah/pergola/balcony	improved aluminium, single clear, (U-value:			

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Glazing requ	irements							Show on DA Plans	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			
					>=600 mm		6.44, SHGC: 0.75)			
w109	SW	1.08	0	0	eave/verandah/pergola/bald >=600 mm		improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
w110	SW	1.08	0	0	eave/verandah/pergola/bald >=600 mm		improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Skylights									1	
The applicant m	nust install the	e skylight	s in accor	dance with th	ne specifications listed in the	table be	low.	✓	~	✓
The following re	equirements r	must also	be satisfi	ed in relation	to each skylight:				_	_
Each skylight m		tch the de	escription	, or, have a U	J-value and a Solar Heat Gair	in Coeffic	cient (SHGC) no greater than that listed in		✓	~
Skylights gl	azing requ	iiremen	its							
Skylight number Area of glazing inc. frame (m2) Shading device Frame and glass type										
S1	0.54		no shad	ing			internal/argon fill/clear external, (or SHGC: 0.456)			
S2	1.09		no shad	ing			internal/argon fill/clear external, (or 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.