BASIX Certificate

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

Alterations and Additions

Certificate number: A339640

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: Wednesday, 06, February 2019

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



Project address Project name Warringah House 2 Warringah Street North Balgowlah 2093 Street address Northern Beaches Council Local Government Area Deposited Plan 13871 Plan type and number Lot number 18 Section number 0 Project type Separate dwelling house Dwelling type Type of alteration and My renovation work is valued at \$50,000 or more, and does not include a pool (and/or spa). addition

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

Name / Company Name: PASSER Architects

ABN (if applicable): 96194127103

escriptio

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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 construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m2, b) insulation specified is not required for parts of altered construction where insulation already exists.					✓
Construction	Additional insulation required (R-value)	Other specifications			
external wall: brick veneer	R1.16 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.76 (up), roof: foil/sarking	light (solar absorptance < 0.475)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	✓	✓	✓
The following re	equirements r	must also	be satisfi	ed in relation	n to each window and glazed door:			✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.								✓	✓
					f each eave, pergola, verandah, bal than 2400 mm above the sill.	Icony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.							✓	✓	
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.							✓	✓	
Overshadowing buildings or 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 in the table below.						✓	✓	✓	
Windows an	d glazed o	doors g	lazing r	equireme	nts				
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	Shading device	Frame and glass type			
W1	W	1	7.1	2.7	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W2	W	1.2	7.9	2.5	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W3	W	1.8	1.8	1.2	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W4	N	5.5	0	0	eave/verandah/pergola/balcony	standard aluminium, single pyrolytic low-e,			

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Glazing requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check	
Window / doo	r Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=900 mm	(U-value: 5.7, SHGC: 0.47)			
W5	N	1.5	0	0	eave/verandah/pergola/balcor >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W6	N	1	0	0	eave/verandah/pergola/balcor >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D01	S	2.6	0	0	eave/verandah/pergola/balcor >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D02	N	12.6	0	0	eave/verandah/pergola/balcor >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D03	Е	4.6	0	0	eave/verandah/pergola/balcor >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W7	E	1.8	0	0	eave/verandah/pergola/balcor >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
Skylights	•								
The applicant	must install th	e skylight:	s in accor	dance with th	ne specifications listed in the tab	le below.	✓	√	✓
The following requirements must also be satisfied in relation to each skylight:						✓	V		
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 Area of glazing inc. frame (m2) Shading device Frame and glass type									
S1	1.5		no shad	no shading timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)					

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Glazing requirements					Show on CC/CDC Plans & specs	Certifier Check
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S2	1.5	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S3	1.5	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S4	1.5	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.