BASIX Certificate

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

Alterations and Additions

Certificate number: A368670 02

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: Monday, 27, January 2020

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



Project address Project name 52R 02 Street address 52 robertson Road north crul curl 2099 Local Government Area Northern Beaches Council Deposited Plan 5796 Plan type and number Lot number 13 Section number 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

picase complete before administration of the control of the contro	Certificate Prepared by	(please complete before submitting to Council or PCA)
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Name / Company Name: SVC int

ABN (if applicable): N/A

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 the table below, except that a) additional insulat is not required for parts of altered construction v	tion is not required where the area of new const		√	√	✓
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
suspended floor above garage: framed (R0.7).	nil				
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				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.74 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			
flat ceiling, flat roof: framed	ceiling: R1.58 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	l glazed do	ors							
					hading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	✓	✓	~
The following r	equirements i	must also	be satisf	ied in relation	n to each window and glazed door:			✓	✓
have a U-value must be calculated	and a Solar ated in accord	Heat Gair Iance with	n Coefficion h Nationa	ent (SHGC) i I Fenestratio	no greater than that listed in the table	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		✓	~
					f each eave, pergola, verandah, bal than 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with p	olycarbonate	roof or s	imilar trar	slucent mate	erial must have a shading coefficien	nt of less than 0.35.		✓	✓
					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					ht and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows a	nd glazed o	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			
WF1	E	5.18	2.4	0.75	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WF2	Е	4.5	1.6	0.75	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WF3	S	3.46	1.6	0.6	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WF4	W	0.63	1.6	0.45	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 / do	oor Orientation	Area of glass		adowing	Shading device	Frame and glass type					
110.		inc. frame (m2)	Height (m)	Distance (m)							
					>=450 mm	(U-value: 5.7, SHGC: 0.47)					
WF5	W	1.26	1.6	0.3	eave/verandah/pergola/balcony >=450 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)					
WF6	W	1.2	1	0.2	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)					
WF7	S	1.2	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)					
WF8	W	1.2	1	0.2	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)					
WF10	N	0.4	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)					
WF11	N	0.4	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)					
WF12	E	0.71	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)					
WG1	E	2.16	3	2.9	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)					
WG2	Е	2.95	3	2	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)					
Skylights											
The applicar	nt must install th	e skylight	ts in acco	rdance with t	he specifications listed in the table b	below.	✓	✓	✓		
The following	g requirements	must also	be satisfi	ied in relatior	n to each skylight:			✓	_		
	•				, -	The following requirements must also be satisfied 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					

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Glazing requir	rements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
the table below.						
Skylights gla	zing requireme	nts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S2	1.02	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S3	1.02	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S4	0.35	no shading	timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S5	0.75	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
Glazed roofs						
The applicant mu	ust install the glazed	roofs described in the table below, in accor	dance with the specifications listed in the table.	✓	✓	✓
The following red	quirements must also	be satisfied in relation to each glazed roof			✓	✓
Glazed roofs	glazing require	ments				
Glazed roof number	Area of glazing (m2)	Shading device	Glass type			
S1	2.6	no shading	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
S6	3.51	no shading	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			

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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.