# **BASIX** Certificate

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

## **Alterations and Additions**

Certificate number: A380773

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, 22, June 2020

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



# Description of project

Project address	
Project name	62 Riviera Ave Revised
Street address	62 Riviera Avenue Avalon 2107
Local Government Area	Pittwater Council
Plan type and number	Deposited Plan 19
Lot number	209443
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 does not include a pool (and/or spa).

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

Name / Company Name: savvy build design

ABN (if applicable): 82488984941

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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.	✓	<b>✓</b>	<b>✓</b>
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.		<b>~</b>	<b>✓</b>
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.		<b>✓</b>	<b>✓</b>
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 insular is not required for parts of altered construction	<b>√</b>	<b>V</b>	<b>~</b>		
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with open subfloor: framed (R0.7).	R0.8 (down) (or R1.50 including construction)				
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
external wall: cavity brick	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.24 (up), roof: foil backed blanket (100 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 doors			
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.	. 🗸	<b>✓</b>	<b>~</b>
The following requirements must also be satisfied in relation 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 may 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 SHGC must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for informatic only. Alternative systems with complying U-value and SHGC may be substituted.	Cs	<b>~</b>	<b>✓</b>
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 above the head of the window or glazed door and no more than 2400 mm above the sill.	mm 🗸	✓	<b>✓</b>
For projections described as a ratio, the ratio of the projection from the wall to the height above the window or glazed door sill must be at least that shown in the table below.	✓	<b>✓</b>	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		<b>~</b>	<b>✓</b>
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.	so	<b>✓</b>	<b>✓</b>
Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blamust overlap in plan view.	ades	<b>✓</b>	<b>✓</b>
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, a specified in the 'overshadowing' column in the table below.	as 🗸	<b>✓</b>	<b>✓</b>
Windows and glazed doors glazing requirements			
Window / door Orientation Area of Overshadowing Shading device Frame and glass type			
no.  glass inc. frame (m2)  Height Distance (m)  (m)			
W1 S 0.84 0 eave/verandah/pergola/balcony standard aluminium, single pyrolytic low >=900 mm (U-value: 5.7, SHGC: 0.47)	-e,		
W2 E 3.54 8 2.65 eave/verandah/pergola/balcony standard aluminium, single pyrolytic low	-е,		

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Glazing requirements							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	(U-value: 5.7, SHGC: 0.47)			
W3	N	0.72	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W4	N	1.42	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W5	N	2.4	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W6	S	8.76	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W7	W	1.92	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W8	S	9.84	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W9	N	1.92	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W10	N	6.72	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W11	E	1.28	0	0	pergola (adjustable shade) >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W12	N	4.48	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W13	N	1.6	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W14	N	1.22	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W15	N	0.9	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 no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
					>=600 mm	(U-value: 5.7, SHGC: 0.47)			
W16	N	8.76	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W17	W	2.4	1.6	3.82	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W18	S	6.3	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W19	Е	0.78	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W20	S	0.9	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W21	N	0.9	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W22	Е	1.43	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W23	N	3.64	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W24	W	1.5	0	0	projection/height above sill ratio >=0.36	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W25	W	1.5	0	0	projection/height above sill ratio >=0.36	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
Skylights									
	must install th	e skylights	s in accor	dance with the	ne specifications listed in the table b	pelow.	<b>√</b>	<b>✓</b>	1
		, ,			to each skylight:		4	1	, ·

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Glazing require	ments			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Each skylight may the table below.	either match the de	escription, or, have a U-value and a Solar	Heat Gain Coefficient (SHGC) no greater than that listed in		<b>✓</b>	<b>~</b>
External awnings a		✓	<b>✓</b>			
Skylights glaz	ing requiremen	ts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	1.2	external adjustable awning or blind	aluminium, moulded plastic single clear, (or U-value: 6.21, SHGC: 0.808)			

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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.