BASIX Certificate

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

Alterations and Additions

Certificate number: A217801 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 Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

Director-General

Date of issue: Wednesday, 25, July 2018

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



Proje Proje Stree Local Plan Lot no Section Proje Dwell Type additi

Project address							
Project name	Riverview Rd Avalon (498)_03						
Street address	127 Riverview Road Avalon 2107						
Local Government Area	Pittwater Council						
Plan type and number	Deposited Plan 1196629						
Lot number	2						
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: Sustainable Thermal Solutions

ABN (if applicable): 55146061059

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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 insuling is not required for parts of altered construction	~	~	✓		
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with enclosed subfloor: concrete (R0.6).	R0.70 (down) (or R1.30 including construction)				
external wall: concrete block/plasterboard	R1.18 (or R1.70 including construction)				
flat ceiling, flat roof: concrete/bare internal	ceiling: R3.00 (up), roof: none	light (solar absorptance < 0.475)			

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Glazing requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check	
Windows and	glazed do	ors							
					ading devices, in accordance with each window and glazed door.	the specifications listed in the table below.	✓	✓	✓
The following re	equirements r	must also	be satisfi	ed in relation	to each window and glazed door:			✓	✓
have a U-value	and a Solar	Heat Gair	n Coefficie	ent (SHGC) no		d glass may either match the description, or, le below. Total system U-values and SHGCs		√	~
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.								✓	~
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.						✓	✓	~	
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 d	doors gl	lazing re	equiremen	ts				
	Window / door Orientation Area of Overshadowing Shading device Frame and glass type								
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W5	N	12.48	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	W	3.56	17	3.6	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation		Area of Overshadowing		Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W7	W	6.24	17	2.2	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W8	E	6.24	12.2	6.1	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D2	W	2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D3	W	2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D4	W	2	10	8.5	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D9	W	11	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W99	S	4.8	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W100	S	3.12	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
Skylights									
The applicant must install the skylights in accordance with the specifications listed in the table below.					✓	✓	V		
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 the table below.						✓	✓		
Skylights g	azing requ	uiremen	ts						

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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			
S1	0.95	no shading	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.