BASIX Certificate

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

Alterations and Additions

Certificate number: A184304 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

This certificate is a revision of certificate number A184304 lodged with the consent authority or certifier on 04 Aug 2014 with application N0263/14.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Sch 1 Cl 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000

Secretary

Date of issue: Thursday, 19, December 2019

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



Description of project

Project address	
Project name	WISEMAN_02
Street address	63 MARINE PARADE AVALON 2107
Local Government Area	Pittwater Council
Plan type and number	Deposited Plan 8394
Lot number	109
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 includes a pool (and/or spa).

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

Name / Company Name: shimdesign

ABN (if applicable): 15498224116

BASIX Certificate number: A184304_02 page 2 / 9

Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank	•		
The applicant must install a rainwater tank of at least 1175 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	~	✓
The applicant must configure the rainwater tank to collect rainwater runoff from at least 321 square metres of roof area.		✓	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool and outdoor spa.		✓	✓
Outdoor swimming pool		1	
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 16 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must install the following heating system for the swimming pool that is part of this development: solar (gas boosted).		✓	✓
Outdoor spa		1	
The spa must not have a capacity greater than 2.7 kilolitres.	✓	✓	✓
The spa must have a spa cover.		✓	~
The applicant must install a spa pump timer.		✓	~
The applicant must install the following heating system for the outdoor spa that is part of this development: gas.		✓	~

BASIX Certificate number: A184304_02 page 3 / 9

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.	✓	✓	✓
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.		~	✓
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.		✓	✓
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.		~	

BASIX Certificate number: A184304_02 page 4 / 9

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
	ation is not required where the area of new con	s) in accordance with the specifications listed in struction is less than 2m2, b) insulation specified	✓	√	~
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)				
external wall: concrete block/plasterboard	R1.18 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R3.00 (up), roof: foil/sarking	dark (solar absorptance > 0.70)			
raked ceiling, pitched/skillion roof: framed	ceiling: R3.00 (up), roof: foil/sarking	dark (solar absorptance > 0.70)			
flat ceiling, flat roof: framed	ceiling: R3.00 (up), roof: foil/sarking	dark (solar absorptance > 0.70)			

PASIX Certificate number: A184304_02 page 5 / 9

Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
The applicant n Relevant overs	nust install the	e windows	s, glazed is must be	doors and she satisfied for	nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	✓	✓	~
The following re	The following requirements must also be satisfied in relation to each window and glazed door:								✓
have a U-value must be calcula	and a Solar ted in accord	Heat Gair Iance with	n Coefficie n National	ent (SHGC) r Fenestration	no greater than that listed in the tabl	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		~	~
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 p	Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.							✓	✓
					e window or glazed door above which which will be more 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 an	d glazed d	loors g	lazing re	equireme	nts				
Window / door	Orientation		Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W1	W	6.1	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W2	W	4.32	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W3	N	3.5	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W4	N	2.65	0	0	eave/verandah/pergola/balcony	improved aluminium, single toned,			

BASIX Certificate number: A184304_02 page 6 / 9

Glazing requirements									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: 6.39, SHGC: 0.56)			
W5	W	9.46	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W6	S	1.62	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W7	S	2.16	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W8	S	0.82	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W9	S	2.16	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W10	S	2.16	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W11	S	4.8	5.1	4.2	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W12	W	5.4	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W13	W	5.67	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W14	N	3.84	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W15	W	9.46	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W16	S	1.62	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W17	S	1.62	0	0	none	improved aluminium, single clear, (U-value:			

BASIX Certificate number: A184304_02 page 7 / 9

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)	adowing Distance (m)	Shading device	Frame and glass type			
						6.44, SHGC: 0.75)			
W18	S	4.2	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W19	E	11.8	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W20	N	9.6	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W21	Е	6.48	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W22	Е	1.6	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W23	Е	3.91	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W24	N	0.85	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W25	Е	3.06	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W26	N	2.89	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W27	N	1.68	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W28	W	1.45	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W29	N	2.16	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W30	S	1.44	0	0	none	improved aluminium, single clear, (U-value:			

BASIX Certificate number: A184304_02 page 8 / 9

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)	dowing Distance (m)	Shading device	Frame and glass type			
						6.44, SHGC: 0.75)			

PASIX Certificate number: A184304_02 page 9 / 9

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.