# **BASIX**°Certificate

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

# **Alterations and Additions**

Certificate number: A400358 05

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 A400358\_02 lodged with the consent authority or certifier on 16 Feb 2021 with application DA2021/0148.

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: Monday, 27, June 2022

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



# Description of project

Project address								
Project name	BIL_05							
Street address	1A The Serpentine The Bilgola Beach 2107							
Local Government Area	Northern Beaches Council							
Plan type and number	Deposited Plan 511677							
Lot number	3							
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: RDO Architect

ABN (if applicable): 23115857862

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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.		<b>✓</b>	<b>✓</b>
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.		<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.		<b>✓</b>	<b>✓</b>
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.		<b>✓</b>	

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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>√</b>	<b>~</b>		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R2.54 (up), roof: thermocellular reflective	medium (solar absorptance 0.475 - 0.70)			

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Glazing requi	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
	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.								
The following re	equirements r	must also	be satisfi	ed in relation	to each window and glazed door:			<b>✓</b>	✓
have a U-value	and a Solar I	Heat Gair	n Coefficie	ent (SHGC) n		ed glass may either match the description, or, ble below. Total system U-values and SHGCs s.		<b>✓</b>	<b>~</b>
have a U-value must be calcula	and a Solar l	Heat Gair Iance with	n Coefficie n National	ent (SHGC) r Fenestration	no greater than that listed in the tab	ear glazing, or toned/air gap/clear glazing must ble below. Total system U-values and SHGCs s. The description is provided for information		<b>✓</b>	<b>✓</b>
					each eave, pergola, verandah, ba han 2400 mm above the sill.	lcony or awning must be no more than 500 mm	<b>✓</b>	✓	✓
Pergolas with p	olycarbonate	roof or si	milar tran	slucent mate	erial must have a shading coefficier	nt of less than 0.35.		✓	✓
					e window or glazed door above whi ens must not be more than 50 mm.	ich they are situated, unless the pergola also		✓	<b>✓</b>
Overshadowing specified in the					nt and distance from the centre and	I the base of the window and glazed door, as	✓	✓	✓
Windows an	d glazed d	doors g	lazing r	equiremer	nts				
Window / door	Orientation		Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W1	NW	3.5	6	4	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W2	NE	1.8	6	4	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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Glazing requirements								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			
W3	NE	2.2	6	3	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W4	NW	22.3	6	6	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	SW	2.2	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	SW	2.7	6	3	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W7	SW	1.7	6	3	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W9	SE	2.9	6	3	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	SE	1.5	6	6	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	SE	2.7	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	SE	2.3	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	SE	2.1	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W15	NE	0.1	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W17	N	3.5	6	2	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W20	NE	1.5	6	9	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check	
Window / door no.	r Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device		Frame and glass type			
W16	W	3.5	6	6	eave/verandah/pergola/ba >=900 mm	alcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W23	SE	0.3	6	2	none		standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W24	SE	2.4	6	9	eave/verandah/pergola/ba >=450 mm	alcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W25	NE	1.8	6	9	eave/verandah/pergola/ba >=450 mm	alcony	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W32-35	NW	5.9	12	8	eave/verandah/pergola/ba >=450 mm	alcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W16	W	3.5	6	6	eave/verandah/pergola/ba >=900 mm	alcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
Skylights										
The applicant i	must install th	e skylight	s in acco	dance with the	he specifications listed in th	ne table b	elow.	✓	<b>✓</b>	✓
The following r	equirements	must also	be satisf	ed 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	lazing requ	uiremen	ıts							
Skylight numb	er Area of o		Shading	device	Fra	ame and	glass type			
S1	0.6		no shac	ing	tim	nber, dou	ble clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S2	0.7		no shad	ing	tim	nber, dou	ble clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S3	0.5		no shad	ing	alu	ıminium,	moulded plastic single clear, (or U-value:			

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Glazing requireme	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check			
Skylight number Ai	rea of glazing nc. frame (m2)	Shading device	Frame and glass type			
			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.