BASIX Certificate

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

Alterations and Additions

Certificate number: A400358 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: Tuesday, 16, February 2021

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



Description of project

Project address	
Project name	BIL_02
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 Rob Design Office

ABN (if applicable): 23115857862

BASIX Certificate number: A400358_02 page 2 / 7

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	<u>.</u>		
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: A400358_02 page 3 / 7

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
		e) in accordance with the specifications listed in struction is less than 2m2, b) insulation specified	V	V	✓
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)			

BASIX Certificate number: A400358_02 page 4 / 7

Glazing requi	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
					nading devices, in accordance with each window and glazed door.	the specifications listed in the table below.	~	~	~
The following requirements must also be satisfied in relation to each window and glazed door:								✓	✓
have a U-value	and a Solar I	Heat Gair	n Coefficie	ent (SHGC) r		ed glass may either match the description, or, ble below. Total system U-values and SHGCs s.		✓	~
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		✓	✓
					each eave, pergola, verandah, ba han 2400 mm above the sill.	lcony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with p	olycarbonate	roof or si	imilar 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		✓	✓
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	equireme	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	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W2	NE	1.7	6	4	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			

BASIX Certificate number: A400358_02 page 5 / 7

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)	Distance (m)	Shading device	Frame and glass type			
W3	NE	2.2	6	3	none	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	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W7	SW	1.8	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W9	SE	2.7	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W10	SE	1.6	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W11	SE	2.7	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W12	SE	2.3	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W13	SE	2.7	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W15	NE	0.1	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W17	N	4	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W20	SE	2.6	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			

BASIX Certificate number: A400358_02 page 6 / 7

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			
W30	SE	1.7	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W31	SW	1.7	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W14	E	0.9	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
Skylights									
The applicant m	nust install th	e skylight:	s in accor	dance with th	ne specifications listed in the table	below.	✓	✓	✓
The following re	equirements i	must also	be satisfi	ed in relation	to each skylight:			✓	✓
Each skylight method the table below		tch the de	escription	, or, have a U	-value and a Solar Heat Gain Coe	efficient (SHGC) no greater than that listed in		✓	✓
Skylights gl	azing requ	uiremen	ts						
Skylight number	Skylight number Area of glazing Shading device Frame and glass type inc. frame (m2)								
S1	0.7		no shad	ing	· ·	uble clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S2	0.8		no shading timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)						
S3	0.4	no shading aluminium, moulded plastic single clear, (or U-value: 6.21, SHGC: 0.808)							

BASIX Certificate number: A400358_02 page 7 / 7

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.