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BASIX Certificate

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

Alterations and Additions

Certificate number: A348953

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

Secretarv Date of issue: Wednesday, 22, May 2019 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	FORM-21a Central Road, Avalon Beach, 2107
Street address	21a Central Road Avalon Beach 2107
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 565095
Lot number	4
Section number	
Section number	
Project type	
	Separate dwelling house

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

Name / Company Name: Sustainability-Z Pty Ltd

ABN (if applicable): 59622331935

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	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.		\checkmark	\checkmark
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.		\checkmark	\checkmark
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.		\checkmark	

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
The applicant must construct the new or a the table below, except that a) additional is not required for parts of altered construction	~	~	~		
concrete slab on ground floor.	Additional insulation required (R-value)	Other specifications			
external wall: brick veneer	R1.16 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R2.50 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			

Glazing re	equirements	;	_				Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows a	and glazed	doors							
					nading devices, in accordance with t r each window and glazed door.	the specifications listed in the table below.	\checkmark	~	~
The followin	ng requiremen	ts must also	be satisfi	ed in relatior	n to each window and glazed door:			\checkmark	\checkmark
have a U-va	alue and a Sol	ar Heat Gai	n Coefficie	ent (SHGC) r		d glass may either match the description, or, le below. Total system U-values and SHGCs s.		~	~
have a U-va must be cal	alue and a Sol culated in acc	ar Heat Gai ordance wit	n Coefficie h National	ent (SHGC) r	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		~	~
					f each eave, pergola, verandah, balo than 2400 mm above the sill.	cony or awning must be no more than 500 mm	\checkmark	~	~
	ons described nown in the tal		the ratio of	f the projection	on from the wall to the height above	the window or glazed door sill must be at	\checkmark	\checkmark	~
Pergolas wi	ith polycarbon	ate roof or s	similar trar	slucent mate	erial must have a shading coefficien	t of less than 0.35.		~	\checkmark
External lou	vres and blind	ds must fully	shade the	e window or	glazed door beside which they are s	situated when fully drawn or closed.		~	\checkmark
					e window or glazed door above whic ens must not be more than 50 mm.	ch they are situated, unless the pergola also		\checkmark	~
Windows	and glaze	d doors g	lazing r	equireme	nts				
Window / d no.	loor Orientatio	on Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
W01	NE	1.08	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W02	NE	0.54	0	0	projection/height above sill ratio	standard aluminium, single clear, (or			

Glazing requirements								Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=0.43	U-value: 7.63, SHGC: 0.75)			
W03	NE	2.9	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W04	NE	2.2	0	0	projection/height above sill ratio >=0.29	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W05	NE	0.432	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W06	NE	2.2	0	0	projection/height above sill ratio >=0.29	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W07	NW	2.31	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W08	NW	1.4	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W09	SE	2.31	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	SW	2.9	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	SW	2.9	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	SW	2.37	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	SE	0.54	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D01	NE	2.13	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D02	NE	23.72	0	0	projection/height above sill ratio	standard aluminium, single pyrolytic low-e,			

Glazing requirements								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			
					>=0.36	(U-value: 5.7, SHGC: 0.47)			
D03	SW	5.04	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D04	SW	5.04	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D05	SW	23.73	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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.