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BASIX Certificate

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

Alterations and Additions

Certificate number: A407761

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, 24, February 2021 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project a	address	
Project n	ame	20922
Street ac	ldress	26 Riverview Road Avalon Beach 2107
Local Go	overnment Area	Northern Beaches Council
Plan type	e and number	Deposited Plan 28164
Lot numb	ber	5
Section r	number	
Project f	ype	
Dwelling	type	Separate dwelling house

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

Name / Company Name: SDS Engineering

ABN (if applicable): 62609585006

Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Outdoor swimming pool			
The swimming pool must be outdoors.	\checkmark	\checkmark	~
The swimming pool must not have a capacity greater than 27 kilolitres.	\checkmark	\checkmark	\checkmark
The swimming pool must have a pool cover.		\checkmark	\checkmark
The applicant must install a pool pump timer for the swimming pool.		\checkmark	\checkmark
The applicant must not incorporate any heating system for the swimming pool that is part of this development.		\checkmark	\checkmark

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.	\checkmark	 	\checkmark
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.		\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 altered the table below, except that a) additional insulat is not required for parts of altered construction v	ion is not required where the area of new cons		~	~	~
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
suspended floor above garage: framed (R0.7).	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
internal wall shared with garage: plasterboard (R0.36)	nil				
raked ceiling, pitched/skillion roof: framed	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 do	oors							
					hading devices, in accordance with r each window and glazed door.	the specifications listed in the table below.	~	~	~
The followin	ng requirements	must also	be satisfi	ed in relatior	n to each window and glazed door:			\checkmark	\checkmark
have a U-va	alue and a Solar	Heat Gai	n Coefficie	ent (SHGC) i		ed glass may either match the description, or, le below. Total system U-values and SHGCs s.		~	~
have a U-va must be cale	alue and a Solar culated in accor	Heat Gair dance wit	n Coefficie n National	ent (SHGC) i Fenestratio	no greater than that listed in the tab	ear 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, ba than 2400 mm above the sill.	lcony or awning must be no more than 500 mm	\checkmark	\checkmark	~
Pergolas wit	th polycarbonate	e roof or s	imilar tran	slucent mate	erial must have a shading coefficier	nt of less than 0.35.		\checkmark	\checkmark
External lour	vres and blinds	must fully	shade the	e window or	glazed door beside which they are	situated when fully drawn or closed.		~	\checkmark
					e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		 	~
Windows	and glazed	doors g	lazing r	equireme	nts				
Window / do no.	oor Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	Shading device	Frame and glass type			
FFW2	N	1.44	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
FFW3	N	0.72	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
FFW4	Ν	1.44	0	0	eave/verandah/pergola/balcony	standard aluminium, single pyrolytic low-e,			

Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation		Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=450 mm	(U-value: 5.7, SHGC: 0.47)			
GFW8	Ν	0.36	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
GFW6	E	0.54	0	0	external louvre/blind (fixed)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
FFW5	E	1.44	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
FFW6	E	1.08	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
FFW7	E	0.86	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
FFW8	E	1.44	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
FFW09	S	1.44	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
FFW10	S	1.44	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
FFW11	W	7.2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
FFW12	W	0.86	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
FFW1	W	8.16	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
FFW13	W	1.62	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

Glazing requ	iirements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Skylights				1		
The applicant m	nust install the skyligh	ts in accordance with the specifi	cations listed in the table below.	\checkmark	\checkmark	\checkmark
The following re	equirements must also	o be satisfied in relation to each	skylight:		~	\checkmark
Each skylight n the table below		\checkmark	~			
Skylights gl	lazing requireme	nts				
Skylight numbe	er Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	1	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S2	1	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S3	1	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S4	2	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S5	2	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			

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.