BASIX Certificate

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

Alterations and Additions

Certificate number: A333586

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: Friday, 15, February 2019 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	42 Surfers Parade
Street address	42 Surfers Parade Parade Freshwater 2096
Local Government Area	Warringah Council
Plan type and number	Deposited Plan 5466
Lot number	14
Section number	1
Project type	
Dwelling type	Separate dwelling house
Type of alteration and addition	My renovation work is valued at \$50,000 or mor and does not include a pool (and/or spa).

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

Name / Company Name: novam design studio

ABN (if applicable): 86204212060

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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		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					
	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			
concrete slab on ground floor.	nil				
floor above existing dwelling or building.	nil				
external wall: brick veneer	R1.16 (or R1.70 including construction)				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R2.50 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			

Glazing r	requirement	S					Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows	and glazed	doors							
					hading devices, in accordance with r each window and glazed door.	the specifications listed in the table below.	\checkmark	~	\checkmark
The followi	ing requireme	nts must also	o be satisfi	ed in relatior	n to each window and glazed door:			\checkmark	\checkmark
have a U-v	value and a Sc	lar Heat Gai	in Coefficie	ent (SHGC) r		d glass may either match the description, or, le below. Total system U-values and SHGCs s.		~	~
have a U-v must be ca	value and a So alculated in ac	lar Heat Gai cordance wit	in Coefficie th National	ent (SHGC) r Fenestratio	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, bal than 2400 mm above the sill.	cony or awning must be no more than 500 mm	~	~	\checkmark
Pergolas w	with polycarbor	nate roof or s	similar trar	slucent mate	erial must have a shading coefficien	t of less than 0.35.		~	\checkmark
External lo	ouvres and blin	ds must fully	y shade the	e window or	glazed door beside which they are	situated when fully drawn or closed.		~	\checkmark
					e window or glazed door above which a which a window or glazed door above which a window which a window which a	ch they are situated, unless the pergola also		~	\checkmark
	owing buildings n the 'overshae				nt and distance from the centre and	the base of the window and glazed door, as	\checkmark	\checkmark	\checkmark
Windows	s and glaze	ed doors g	glazing r	equireme	nts				
	door Orientat				Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W01	W	2.47	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W03	N	3.09	0	0	eave/verandah/pergola/balcony	timber or uPVC, single pyrolytic low-e,			

Glazing requ	irements						Show on DA Plans	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)					
					>=600 mm	(U-value: 3.99, SHGC: 0.4)			
W04	E	0.7	0	0	external louvre/blind (fixed)	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W05	S	0.37	0	0	none	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W06	E	5.12	0	0	external louvre/blind (adjustable)	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W07	N	0.37	5.02	1.8	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W08	E	1.47	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W09	E	1.47	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W10	S	3.9	0	0	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W11	W	1.41	5.2	2.08	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W12	W	1.41	5.2	2.08	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W13	W	1.41	5.2	2.08	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W14	N	0.74	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W15	N	2.88	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W16	E	1.47	0	0	eave/verandah/pergola/balcony	timber or uPVC, single pyrolytic low-e,			

Glazing requ	Show on DA Plans	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)					
					>=600 mm	(U-value: 3.99, SHGC: 0.4)			
W17	E	1.74	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W18	E	1.12	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W19	S	0.47	0	0	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W20	N	0.47	0	0	external louvre/blind (fixed)	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W21	E	1.4	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W22	E	1.4	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W23	S	4.68	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W24	S	4.68	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W25	W	1.3	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W26	W	1.47	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W27	W	1.47	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W28	W	1.22	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W29	N	3.57	0	0	eave/verandah/pergola/balcony	timber or uPVC, single pyrolytic low-e,			

Glazing re	equirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / d no.	oor Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
					>=900 mm	(U-value: 3.99, SHGC: 0.4)			
D06	S	8.06	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D08	Ν	5.04	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D15	N	6.62	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
Skylights							-		
The applica	nt must install th	e skylight	s in acco	rdance with t	he specifications listed in the table	below.	\checkmark	\checkmark	 Image: A set of the set of the
The followin	ng requirements	must also	be satisf	ied in relatior	n to each skylight:			~	~
Each skyligl the table be		itch the de	escription	, or, have a l	J-value and a Solar Heat Gain Coe	efficient (SHGC) no greater than that listed in		×	~
Skylights	s glazing requ	uiremen	ts						
Skylight nu	mber Area of g inc. fram		Shading	g device	Frame an	d glass type			
S1	0.8		no shad	ling		w-E internal/argon fill/clear external, (or 2.5, SHGC: 0.456)			
S2	0.8		no shad	ling		w-E internal/argon fill/clear external, (or 2.5, SHGC: 0.456)			
S3	0.8		no shad	ling		timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S4	1.13		no shad	ling		w-E internal/argon fill/clear external, (or 2.5, SHGC: 0.456)			

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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.