BASIX Certificate

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

Alterations and Additions

Certificate number: A483222

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, 21, December 2022 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project name	7a Carlton Street, Manly
Street address	7a Carlton Street Manly 2095
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 159861
Lot number	В
Section number	
Project type	
Dwelling type	Separate dwelling house
	My renovation work is valued at \$50,000 or more

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

Name / Company Name: Evergreen Energy Consultants Pty Ltd

ABN (if applicable): 91601503717

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			
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	~
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	~
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	~	~	~		
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with open subfloor: framed (R0.7).	R0.8 (down) (or R1.50 including construction)				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
external wall: cavity brick	nil				
external wall: other/undecided	R1.70 (including construction)				
flat ceiling, pitched roof	ceiling: R3.00 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			
flat ceiling, flat roof: framed	ceiling: R2.08 (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 0.70)			

Glazinę	g requirement	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check					
Window	vs and glazed	doors						l	I
	licant must insta It overshadowing	~	~	\checkmark					
The follo	owing requireme		\checkmark	\checkmark					
have a L	J-value and a So	olar 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 L must be	J-value and a So	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	 	~	~
Pergolas	s with polycarbo	nate roof or s	similar trar	nslucent mate	erial must have a shading coefficien	t of less than 0.35.		~	\checkmark
External	l louvres and blir	nds must fully	/ shade th	e window or	glazed door beside which they are	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
	adowing building d in the 'oversha				nt and distance from the centre and	the base of the window and glazed door, as	~	\checkmark	\checkmark
Windo	ws and glaze	ed doors g	lazing r	equireme	nts		_		
	/ door Orientat				Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
D1	N	4.83	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W1	Ν	4.5	0	0	eave/verandah/pergola/balcony	standard aluminium, single clear, (or			

Glazing requirements								Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation	Area of	Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=900 mm	U-value: 7.63, SHGC: 0.75)			
W2	W	4.5	5	7	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W3	N	0.55	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D1a	W	1.89	5	4.5	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W4	W	0.54	5	4.5	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	W	1.37	5	4.5	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D2	S	4.9	3	8	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	S	0.95	3	8	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6a	E	0.95	5	7	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D3	S	7.3	3	8	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W7	E	2.5	5	3	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W8	E	2.5	5	3	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D4	N	4.83	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D5	N	2.5	0	0	eave/verandah/pergola/balcony	standard aluminium, single clear, (or			

Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / do	oor Orientation		Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=900 mm	U-value: 7.63, SHGC: 0.75)			
W9	N	1.58	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	S	1.58	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D6	S	3.15	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D7	S	3.15	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	E	1.9	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W12	N	1.9	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W12a	E	1.9	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
Skylights									
The applicar	nt must install th	e skylight	ts in accoi	rdance with t	he specifications listed in the table b	pelow.	\checkmark	\checkmark	\checkmark
The following requirements must also be satisfied in relation to each skylight:							~	\checkmark	
	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.							\checkmark	\checkmark
Skylights	glazing requ	uiremen	nts						

Glazing requirements						Certifier Check
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	0.99	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S2	0.99	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S3	0.99	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 "
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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.