BASIX Certificate

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

Alterations and Additions

Certificate number: A144825 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 29/9/2006 published by Department of Planning. This document is available at www.basix.nsw.gov.au

Director-General

Date of issue: Thursday, 21, March 2013

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



Project address Project name Barrat Renovation 02 Street address 4 Bennet Street DEE WHY 2099 Warringah Council Local Government Area Deposited Plan 13621 Plan type and number Lot number 30 Section number 0 Project type Separate dwelling house Dwelling type Type of alteration and My renovation work is valued at \$50,000 or more, addition and includes a pool (and/or spa).

escriptio

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

Name / Company Name: Efficient Living

ABN (if applicable): 82 116 346 082

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Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank	<u>'</u>		_
The applicant must install a rainwater tank of at least 880 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	✓	✓	✓
The applicant must configure the rainwater tank to collect rainwater runoff from at least 70 square metres of roof area.		✓	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool.		✓	✓
Outdoor swimming pool			
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 25 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must install the following heating system for the swimming pool that is part of this development: gas.		✓	✓

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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.		✓	~
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.		✓	

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Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
The applicant must construct the new or altere the table below, except that a) additional insula is not required for parts of altered construction	V	✓	~		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R2.50 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			

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Glazin	g requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windov	vs and glazed do	oors							
	licant must install the tovershadowing sp	✓	~	~					
The follo	wing requirements	must also	be satisf	ied in relatior	n to each window and glazed door:			✓	✓
have a l	J-value and a Solar	Heat Gai	n Coefficie	ent (SHGC) r		d glass may either match the description, or, le below. Total system U-values and SHGCs		✓	✓
have a l must be	J-value and a Solar calculated in accor	Heat Gai	n Coefficion h Nationa	ent (SHGC) r I 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 . The description is provided for information		✓	✓
	ections described a at shown in the table		the ratio o	f the projection	on from the wall to the height above	the window or glazed door sill must be at	✓	✓	✓
	ndowing buildings o				nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windo	ws and glazed	doors g	lazing r	equireme	nts				
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W03	S	3.3	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W05	S	3	0	0	projection/height above sill ratio >=0.23	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W07	W	1.4	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W08	W	2.5	0	0	projection/height above sill ratio >=0.36	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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Glazinç	g requirements						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			
W09	N	3.9	2.5	0.75	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	N	1.6	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	E	1.9	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	N	2.3	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	W	1.4	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W15	N	2.8	3.5	1.3	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W16	N	1	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W17	N	0.8	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W18	W	2.3	3.5	2.8	projection/height above sill ratio >=0.29	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W19	W	2.6	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W20	N	1	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W21	N	2	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W22	N	1	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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Glazing requirements							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			
W23	N	2.2	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W24	Е	3.5	0	0	projection/height above sill ratio >=0.36	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W26	W	2.8	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W27	N	2.3	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W28	N	1.9	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W29	Е	1.2	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D01	Е	3.1	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D02	N	5.8	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D03	W	6.7	0	0	projection/height above sill ratio >=0.36	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D04	N	5.2	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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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.