BASIX°Certificate

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

Alterations and Additions

Certificate number: A145457 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

This certificate is a revision of certificate number A145457 lodged with the consent authority or certifier on 06 Sep 2012 with application 2012/1038.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate complies with the requirements of Sch 1 Cl 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000.

Director-General

Date of issue: Friday, 29, November 2013

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



Description of project

	Approximate the second
Project address	
Project name	16 Stepehn St, Beacon Hill_02
Street address	16 Stephen Street Beacon Hill 2100
Local Government Area	Warringah Council
Plan type and number	Deposited Plan 19657
Lot number	22
Section number	0
Project type	
Dwelling type	Separate dwelling house
Type of alteration and addition	My renovation work is valued at \$50,000 or more, and does not include a pool (and/or spa).

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

Name / Company Name: GRS Building Reports

ABN (if applicable): 33 077 900 497

	DA Plans	CC/CDC. Plans &	Certifier Check
Hot water			
The applicant must install the following hot water system in the development: gas instantaneous.	✓	✓	1
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.		✓	

Construction			DA Plans	Show on CC/CDC Plans &	Check
Insulation requirements					
the table below, except that a) additional insulis not required for parts of altered construction		ruction is less than 2m2, b) insulation specified	√	✓	✓
Construction	Additional insulation required (R-value)	Other specifications.			
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, flat roof: framed	ceiling: R1.58 (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 0.70)			

Glazino	y requirements						Show on		Certifier
							DA Plans	CC/CDC. Plans &	Check
Mindo								rspecs	
vvindow	s and glazed d	oors							
The appl Relevant	icant must install t overshadowing s	he window pecification	s, glazed is must be	doors and she satisfied for	ading devices, in accordance with t each window and glazed door.	the specifications listed in the table below.	✓	✓	✓
The follo	wing requirements	s must also	be satisfi	ed in relation	to each window and glazed door:			✓	✓
have a U	I-value and a Sola	r Heat Gair	n Coefficie	ent (SHGC) n	ber frames and single clear or tone o greater than that listed in the tabl n Rating Council (NFRC) conditions	d glass may either match the description, or, e below. Total system U-values and SHGCs		✓.	✓
have a L must be	I-value and a Sola calculated in acco	r Heat Gair rdance with	n Coefficie n National	ent (SHGC) n Fenestration	o greater than that listed in the table	ar glazing, or toned/air gap/clear glazing must e below. Total system U-values and SHGCs . The description is provided for information		✓	✓
For proje above th	ections described i e head of the wind	n millimetre dow or glaz	es, the lea ed door a	ding edge of nd no more t	each eave, pergola, verandah, bald han 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
	ections described a t shown in the tabl		he ratio ol	the projection	on from the wall to the height above	the window or glazed door sill must be at	✓	✓	✓
Pergolas	with polycarbona	te roof or s	imilar tran	slucent mate	rial must have a shading coefficient	t of less than 0.35.		✓	✓
Pergolas shades a	s with fixed battens a perpendicular wi	s must have ndow. The	e battens spacing b	parallel to the etween batte	e window or glazed door above which ons must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Windo	ws and glazed	doors g	lazing r	equiremer	nts	***************************************			
Window	Orientation	Areaof	Oversh	idowing:	Shading device	Frame/and glassitype,			
/ door no.		glass inc frame	Height (m)	Distance (m)	440				
		iranie (m2)							
W1	W	2.56	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W2	S	1.2	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
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Glazin	g requirements						Show on Show on Certifier DA: Plans CC/CDC Check Plans &
Windov /(door	v Orientation	Area of	A COLUMN TO SECURE	ndowing Distance	Shading device	Frame and glass type	Spees
, 44		inc frame (m2)	(ii)	(m)·			
W3	W	1.2	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	
W4	W	0.6	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	
W5	W	0.6	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	
W6	N	0.9	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	
W7	E	4.41	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)	
W8	E	4.41	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)	
W9	S	2.52	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	
W11	W	2.44	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	
W13	E	2.44	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	
D1	N	4.41	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)	
D2	E	10.94	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)	
D3	S	2.52	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	

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Lecence

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a "\(\sigma\)" 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.