BASIX Certificate

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

Alterations and Additions

Certificate number: A250608

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 18/09/2014 published by Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

Director-General Date of issue: Monday, 30, May 2016 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address				
Project name	17916, 3 Bilgola Ave			
Street address	3 Bilgola Avenue Bilgola Beach 2107			
Local Government Area	Pittwater Council			
Plan type and number	Deposited Plan 752046			
Lot number	133			
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: Max Brightwell

ABN (if applicable): 95897024384

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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.		\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
nsulation requirements			I		
The applicant must construct the new or altere the table below, except that a) additional insula is not required for parts of altered construction	~	~	~		
Construction					
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, flat roof: framed	ceiling: R3.00 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			

Glazing rec	quirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows ar	nd glazed d	oors							I
					nading devices, in accordance with r each window and glazed door.	the specifications listed in the table below.	~	~	\checkmark
The following	requirements	s must also	be satisfi	ed in relatior	n to each window and glazed door:			\checkmark	\checkmark
have a U-valu	ue and a Sola	r Heat Gair	n Coefficie	ent (SHGC) r		d glass may either match the description, or, le below. Total system U-values and SHGCs s.		~	~
have a U-valu must be calcu	Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.								~
					[;] each eave, pergola, verandah, bal han 2400 mm above the sill.	cony or awning must be no more than 500 mm	\checkmark	\checkmark	\checkmark
Pergolas with	n polycarbona	te roof or si	milar trar	slucent mate	erial must have a shading coefficien	t of less than 0.35.		\checkmark	\checkmark
Pergolas with shades a per	n fixed battens pendicular wi	s must have ndow. The	e battens spacing b	parallel to the etween batte	e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		\checkmark	\checkmark
Overshadowi specified in th	ng buildings o ne 'overshado	or vegetatio wing' colun	n must be nn in the t	e of the heigh able below.	nt and distance from the centre and	the base of the window and glazed door, as	\checkmark	\checkmark	\checkmark
Windows a	and glazed	doors g	lazing r	equireme	nts		_		
Window / doo no.	or Orientatio	n Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
W1	NW	1.32	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W2	NW	1.95	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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)					
W3	SW	12	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W4	SW	10.4	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	SW	0.81	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	SE	0.9	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W7	SE	2	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W8	NE	0.84	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W9	NE	1.68	2.5	1.1	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W10	NE	1.68	3.4	1.1	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	SW	3.15	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	SW	1.5	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	SW	3.15	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W14	SW	2.7	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W15	SE	1.55	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

							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)	adowing Distance (m)	Shading device	Frame and glass type			
W16	SE	2.2	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W17	NE	0.72	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W18	NW	4.2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W19	NE	4.2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W20	N	5.25	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W21	NE	3.3	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W22	SE	2.53	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W23	NW	2.53	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
Glazed roofs		÷							
The applicant r	nust install th	e glazed	roofs des	cribed in the	table below, in accordance with the	e specifications listed in the table.	\checkmark	 Image: A set of the set of the	\checkmark
The following r	equirements i	must also	be satisfi	ed in relatior	to each glazed roof:			\checkmark	\checkmark
Glazed roof	<u> </u>	-							
Glazed roof number	Area of ((m2)	glazing	Shading	device	Glass type				
G1	2		no shad	ing	standard a SHGC: 0.4	aluminium, single pyrolytic low-e, (U-value: 5.7, 47)			

BASIX Certificate number: A250608

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.

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