BASIX Certificate

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

Alterations and Additions

Certificate number: A343174

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

Secretary

Date of issue: Wednesday, 03, April 2019

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



Project address Project name 40 Maxwell Street, Mona Vale Street address 40 Maxwell Street Mona Vale 2103 Local Government Area Northern Beaches Council Deposited Plan 216532 Plan type and number Lot number 0 Section number Project type Separate dwelling house Dwelling type Type of alteration and My renovation work is valued at \$50,000 or more, addition and does not include a pool (and/or spa).

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

Name / Company Name: Certified Energy

ABN (if applicable): 95164564210

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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.	✓	✓	✓
Lighting		1	
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.		✓	✓
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 altered the table below, except that a) additional insular is not required for parts of altered construction	V	V	√		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor with in-slab heating system.	R1.00 (slab edge)	in-slab heating system			
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)				
raked ceiling, pitched/skillion roof: framed	ceiling: R3.00 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			

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Glazing requirements	Show on DA Plans	Show on CC/CDC Plans &	Certifier Check
		specs	
Windows and glazed doors	T	T	
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with standard aluminium or timber frames and single clear or toned glass 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. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.		✓	~
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.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	~	✓	~
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓
Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blades must overlap in plan view.		✓	✓
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	✓	✓	✓
Windows and glazed doors glazing requirements			
Window / door Orientation Area of Overshadowing Shading device Frame and glass type no.			
no. glass Height Distance (m) (m) frame (m2)			
W1 NW 1.35 0 eave/verandah/pergola/balcony standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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Glazing requirements									Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W2	NE	0.96	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W3	NE	0.72	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W4	SE	2.7	2.7	11	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	SE	2.7	2.7	11	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	SE	1.275	2.7	11	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W7	SW	0.54	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W8	SW	0.54	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W9	NW	2.16	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W10	NW	1.62	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	NE	0.9	0	0	pergola (adjustable shade) >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	NE	1.08	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W13	NE	1.08	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W14	SE	2.16	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check	
Window / door	Orientation	Area of	Overshadowing		Shading device		Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)						
W15	SE	2.16	0	0	eave/verandah/pergol >=600 mm	a/balcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W16	SE	2.16	0	0	eave/verandah/pergol >=600 mm	a/balcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D1	NE	5.06	0	0	eave/verandah/pergol >=900 mm	eave/verandah/pergola/balcony standard aluminium,				
D2	NW	3.96	0	0	eave/verandah/pergola/balcony >=900 mm		standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D3	NW	7.92	0	0			standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
Skylights										
The applicant must install the skylights in accordance with the specifications listed in the table below.							✓	✓	✓	
The following requirements must also be satisfied in relation to each skylight:								✓	✓	
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.								✓	✓	
Skylights glazing requirements										
Skylight number Area of glazing inc. frame (m2) Shading device Frame and glass type										
S1	0.18		no shad	no shading aluminium, moulded pla 6.21, SHGC: 0.808)			moulded plastic single clear, (or U-value: C: 0.808)			

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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.