BASIX°Certificate

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

Alterations and Additions

Certificate number: A435414

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: Tuesday, 12, October 2021

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



escription of project

Project address	
Project name	McKenna TH
Street address	323 McCarrs Creek Road Terrey Hills 2084
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 752017
Lot number	369
Section number	
Project type	
Dwelling type	Separate dwelling house
Type of alteration and addition	My renovation work is valued at \$50,000 or more, and includes a pool (and/or spa).

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

Name / Company Name: Gartner Trovato Architects

ABN (if applicable): 51673668317

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Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank			
The applicant must install a rainwater tank of at least 1842 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 494 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 62 kilolitres.	✓	✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must not incorporate any heating system for the swimming pool that is part of this development.		✓	✓

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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					
	ed construction (floor(s), walls, and ceilings/roofs) ation is not required where the area of new construction where insulation already exists.		√	✓	✓
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
suspended floor above garage: framed (R0.7).	nil				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R1.45 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	l glazed do	ors							
	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 re	he following requirements must also be satisfied in relation to each window and glazed door:								✓
have a U-value must be calcula	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, bald han 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with p	olycarbonate	roof or s	imilar tran	slucent mate	rial must have a shading coefficien	t of less than 0.35.		✓	✓
External louvre	s and blinds i	must fully	shade the	e window or (glazed door beside which they are s	situated when fully drawn or closed.		✓	✓
					e window or glazed door above which ens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Pergolas with a must overlap in		ading may	/ have adj	ustable blade	es or removable shade cloth (not les	ss than 80% shading ratio). Adjustable blades		✓	✓
Overshadowing specified in the	buildings or overshadow	vegetatio	on must be	e of the heigh able below.	t and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows an				equiremer	nts				
Window / door	Orientation			<u> </u>	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W1	S	0.6	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W2	W	8.5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	Area of glass inc. frame	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
		(m2)							
W3	W	5.4	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W4	W	0.98	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W5	W	13.4	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W6	W	1.2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W7	W	2.04	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W8	W	5.04	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W9	N	1.08	8.5	4.5	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W10	N	1.92	9.5	4.8	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W11	Е	5.1	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W12	Е	13.49	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W13	Е	10.08	0	0	pergola (adjustable shade) >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W14	Е	5.76	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W15	Е	5.76	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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Glazing requ	irements						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	S	1.68	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W17	S	2.28	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W18	W	5.76	15	10	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W19	W	1.6	15	10	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W20	W	1.6	15	10	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W21	Е	5.1	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W22	S	4.32	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W23	E	2.16	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W24	N	4.32	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W25	Е	4.08	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W26	S	1.56	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W27	W	1.52	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W28	W	1.52	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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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)					
W29	W	1.52	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W30	S	0.96	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W31	Е	3.08	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W32	Е	8.47	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W33	S	3.96	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W34	E	3.9	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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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.