BASIX Certificate

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

Alterations and Additions

Certificate number: A370039

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: Friday, 14, February 2020

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



Description of project

Project address	
Project name	39 Starkey Alt & Add 2020
Street address	39 Starkey Street Forestville 2087
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 23118
Lot number	17
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: HAO Design Pty Ltd

ABN (if applicable): 70 113 811 975

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Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Outdoor swimming pool			
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 39.368 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: solar only.		~	✓

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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			
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 altered the table below, except that a) additional insular is not required for parts of altered construction visions.	tion is not required where the area of new cons	s) in accordance with the specifications listed in struction is less than 2m2, b) insulation specified	V	V	✓
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
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)				
internal wall shared with garage: plasterboard (R0.36)	nil				

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	d glazed do	ors							
					nading devices, in accordance with each window and glazed door.	the specifications listed in the table below.	✓	✓	✓
The following r	equirements i	must also	be satisfi	ed in relation	to each window and glazed door:			✓	✓
have a U-value	and a Solar	Heat Gair	n Coefficie	ent (SHGC) n	ber frames and single clear or tone to greater than that listed in the tabl n Rating Council (NFRC) conditions	d glass may either match the description, or, le below. Total system U-values and SHGCs s.		✓	✓
					each eave, pergola, verandah, bal han 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	~
Pergolas with	oolycarbonate	roof or si	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	situated when fully drawn or closed.		✓	✓
					e window or glazed door above which some which will be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Overshadowin specified in the					t and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows a	nd glazed o	doors gl	lazing r	equiremer	nts				
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
G-W1	W	5.2	6	4	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
G-N1	N	0.7	6	2	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
G-N2	N	1.4	6	2	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
G-N3	N	1.4	6	2	eave/verandah/pergola/balcony	standard aluminium, single clear, (or			

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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			
					>=450 mm	U-value: 7.63, SHGC: 0.75)			
G-E1	E	8.6	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
G-E2	E	1.6	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
G-E3	Е	1.9	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
F-N1	N	1	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
F-N2	N	1	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
F-W1	W	4.9	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
F-S1	S	0.6	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
F-S2	S	0.6	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
F-S3	S	0.6	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
F-E1	E	1	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
F-E2	E	1.6	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
F-E3	Е	1.7	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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Glazing require	ments			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Skylights						
The applicant mus	t install the skyligh	ts in accordance with the spec	difications listed in the table below.	✓	✓	✓
The following requ		✓	✓			
Each skylight may the table below.	either match the d	escription, or, have a U-value	and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in		✓	✓
Skylights glaz	ing requiremer	nts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	0.72	no shading	timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S2	0.72	no shading	timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			

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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.