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BASIX Certificate

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

Alterations and Additions

Certificate number: A1774137

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 Definitions" dated 10/09/2020 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Thursday, 21 November 2024 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	22 Hillcrest
Street address	22 HILLCREST Avenue MONA VALE 2103
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan DP810465
Lot number	1
Section number	-
Project type	
Dwelling type	Dwelling house (detached)
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more, and includes a pool (and/or spa).
N/A	N/A
Certificate Prepared by (ple	ase complete before submitting to Council or PCA)
Name / Company Name: RAMA ARC	HITECTS PTY LTD
ABN (if applicable): 27612713425	

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 7393.75 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 120 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 and outdoor spa.		~	~
Outdoor swimming pool			
The swimming pool must be outdoors.	~	~	~
The swimming pool must not have a capacity greater than 47 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 (electric boosted).		~	~
Outdoor spa		·	
The spa must not have a capacity greater than 9 kilolitres.	~	~	~
The spa must have a spa cover.		 	~

Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
The applicant must install a spa pump timer.		v	~
The applicant must install the following heating system for the outdoor spa that is part of this development: solar (electric boosted).		>	~

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.		~	

Construction	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check		
Insulation requirements					
The applicant must construct the new or alte listed in the table below, except that a) addit insulation specified is not required for parts	~	~	~		
Construction	Additional insulation required (R- value)	Other specifications			
concrete slab on ground floor.	nil	N/A			
suspended floor above garage: concrete (R0.6).	nil	N/A			
external wall: brick veneer	R1.16 (or R1.70 including construction)				
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 (55 mm)	medium (solar absorptance 0.475 - 0.70)			

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and glazed doors			
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:		~	 Image: A set of the set of the
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.		~	~
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.	~	~	 Image: A set of the set of the
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		~	 Image: A set of the set of the
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.		~	 Image: A set of the set of the
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.	~	~	~

Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type
W1	NE	2.04	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)
D1	NE	14.56	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)
D2	NE	26	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)
W2	SE	13.52	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)
03	SE	1.5	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)

Glazing requirements

Windows and glazed doors glazing requirements

Certifier

Check

Show on CC/CDC

Plans & specs

Show on DA Plans

Glazing requir	rements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check					
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
D5	NE	1.92	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D6	NE	45.36	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W3	SE	14.04	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W4	SE	3	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D7	SW	11.57	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

Glazing requir	ements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and gla	zed doors glazing	g requirements							
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
D8	SW	2.7	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D9	SW	8.37	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	SW	2.43	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D10	SW	8.13	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	NW	2.21	1.6	2	awning (adjustable) >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

Gla	azing require	ements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check					
	/indow/door umber	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
C	11	NW	2.16	2.7	2	awning (adjustable) >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
V	17	NW	1.21	5	2	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
V	/8	NW	4.27	5	2	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
V	/9	NE	6.08	0	0	awning (fixed) >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
	11	NE	12.74	0	0	awning (fixed) >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

Glazing requir	ements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check					
Windows and gla	zed doors glazing								
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W10	SE	4.94	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	SE	4.94	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D13	SW	12.74	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	NW	1.66	0	0	awning (fixed) >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	NW	1.66	0	0	awning (fixed) >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

Legend

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

Commitments identified with a V 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 V 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 V 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.