# **BASIX**°Certificate

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

## **Alterations and Additions**

Certificate number: A483346

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: Thursday, 08, December 2022

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



# Description of project

Project address	
Project name	Maclennan
Street address	9 Hyde Avenue Killarney Heights 2087
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 217209
Lot number	623
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: Rapid Plans

ABN (if applicable): 43150064592

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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 781 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	<b>✓</b>	<b>✓</b>	<b>&gt;</b>
The applicant must configure the rainwater tank to collect rainwater runoff from at least 50 square metres of roof area.		<b>✓</b>	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool.		<b>~</b>	✓
Outdoor swimming pool			
The swimming pool must be outdoors.	<b>✓</b>	<b>✓</b>	~
The swimming pool must not have a capacity greater than 15 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	<b>✓</b>
The applicant must install the following heating system for the swimming pool that is part of this development: electric heat pump.		<b>✓</b>	✓

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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.		<b>✓</b>	~
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.		<b>✓</b>	✓
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.		<b>✓</b>	✓
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.		<b>✓</b>	

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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	<b>√</b>	<b>V</b>	<b>✓</b>					
Construction	Construction Additional insulation required (R-value) Other specifications							
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: R0.95 (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	glazed do	ors							
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	<b>✓</b>	<b>✓</b>	<b>✓</b>
The following re	equirements r	must also	be satisfi	ed in relation	n to each window and glazed door:			✓	✓
have a U-value must be calcula	and a Solar lated in accord	Heat Gair Iance with	n Coefficie n National	ent (SHGC) r Fenestration	no greater than that listed in the tabl	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		<b>✓</b>	✓
					each eave, pergola, verandah, bal chan 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	<b>✓</b>	<b>✓</b>
For projections least that show			ne ratio of	the projection	on from the wall to the height above	the window or glazed door sill must be at	<b>✓</b>	✓	<b>✓</b>
Pergolas with p	olycarbonate	roof or si	milar tran	slucent mate	erial must have a shading coefficien	t of less than 0.35.		✓	✓
					e window or glazed door above which ens must not be more than 50 mm.	ch they are situated, unless the pergola also		<b>✓</b>	<b>✓</b>
Windows an	d glazed d	doors g	lazing r	equireme	nts				
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	Shading device	Frame and glass type			
W1	SW	2.34	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W2	SE	0.54	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W3	SE	0.9	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W4	SE	1.8	0	0	eave/verandah/pergola/balcony	improved aluminium, single clear, (U-value:			

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Glazing requirements									Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
					>=750 mm	6.44, SHGC: 0.75)			
W5	SE	0.56	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W6	SE	1.84	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W7	NW	5.04	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W8	NW	1.8	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W9	NE	2.88	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W10	NE	2.88	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W11	SE	1.35	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W12	SE	0.9	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W13	SW	2.52	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W14	SW	2.52	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D2	NE	7.92	0	0	projection/height above sill ratio >=0.29	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
D3	SW	7.92	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D4	SW	6.48	0	0	projection/height above sill ratio	improved aluminium, single clear, (U-value:			

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Glazing requir	rements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	g ir fı	Area of plass nc. rame m2)	Oversha Height (m)	Distance (m)	Shading device		Frame and glass type			
					>=0.29		6.44, SHGC: 0.75)			
Skylights										
The applicant mu	ust install the	skylights	in accor	dance with t	ne specifications listed	I in the table b	elow.	✓	✓	~
The following red	quirements mu	ust also l	be satisfi	ed in relatior	to each skylight:				✓	<b>✓</b>
Each skylight mathe table below.	ay either matcl	h the de	scription,	or, have a l	J-value and a Solar He	eat Gain Coeff	icient (SHGC) no greater than that listed in		<b>✓</b>	<b>✓</b>
Skylights gla	zing requir	ement	ts							
Skylight number										
S1	1.1		no shading timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)							
S2	1.1		no shadi	ing			E internal/argon fill/clear external, (or 5, SHGC: 0.456)			

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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.