BASIX Certificate

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

Alterations and Additions

Certificate number: A483346 03

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, 31, May 2023

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



Description of project

	Project address								
	Project name	Maclennan_03							
	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

BASIX Certificate number: A483346_03 page 2 / 8

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.	~	✓	~
The applicant must configure the rainwater tank to collect rainwater runoff from at least 50 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 15 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: electric heat pump.		✓	✓

BASIX Certificate number: A483346_03 page 3 / 8

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.		✓	✓
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.		✓	

BASIX Certificate number: A483346_03 page 4 / 8

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
The applicant must construct the new or alterer the table below, except that a) additional insular is not required for parts of altered 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)			

BASIX Certificate number: A483346_03 page 5 / 8

Glazing re	equirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows	and glazed do	oors							•
The applica	✓	✓	~						
The following	ng requirements	must also	be satisf	ed in relatior	n to each window and glazed door:			✓	✓
have a U-va must be cal	alue and a Solar Iculated in accor	· Heat Gair ·dance witl	n Coefficion n Nationa	ent (SHGC) r Fenestration	no greater than that listed in the table	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		✓	✓
					f each eave, pergola, verandah, bal than 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
	ions described a hown in the table		he ratio o	f the projection	on from the wall to the height above	the window or glazed door sill must be at	✓	✓	✓
Pergolas wi	ith polycarbonat	e roof or s	imilar trar	slucent mate	erial must have a shading coefficien	at 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		✓	✓
Windows	s and glazed	doors g	lazing r	equireme	nts				
	door Orientation		Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
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:			

BASIX Certificate number: A483346_03 page 6 / 8

Glazing requ	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			
					>=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:			

BASIX Certificate number: A483346_03 page 7 / 8

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			
					>=0.29		6.44, SHGC: 0.75)			
W3a	SE	1.8	0	0	eave/verandah/pergola/bal >=750 mm		improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Skylights										
The applicant n	nust install the	e skylight	s in accor	dance with th	ne specifications listed in the	e table be	low.	✓	✓	~
The following re	equirements i	must also	be satisfi	ed in relation	to each skylight:				✓	✓
Each skylight method the table below		tch the de	escription	, or, have a U	I-value and a Solar Heat Gai	ain Coeffic	cient (SHGC) no greater than that listed in		✓	✓
Skylights gl	azing requ	ıiremen	ts							
Skylight number	Skylight number Area of glazing inc. frame (m2) Skylight number Area of glazing inc. frame (m2)									
S1	1.1		no shad	no shading timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)						
S2	1.1		no shad	ing			internal/argon fill/clear external, (or SHGC: 0.456)			

BASIX Certificate number: A483346_03 page 8 / 8

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.