BASIX°Certificate

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

Alterations and Additions

Certificate number: A509721

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, 28, September 2023

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



Description of project

Project address	
Project name	McKenna_McCarrs Creek
Street address	323 McCarrs Creek Road TerreyHills 2084
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 752017
Lot number	369
Section number	
Project type	
Dwelling type	Attached dwelling house
Type of alteration and addition	My renovation work is valued at \$50,000 or more, and includes a pool (and/or spa).
Number of bedrooms after alterations or additions	5

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

Name / Company Name: Archit

ABN (if applicable): 41732959624

BASIX Certificate number: A509721 page 2 / 9

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 1219 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 642 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			1
The swimming pool must be outdoors.	✓	V	✓
The swimming pool must not have a capacity greater than 57.57 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: A509721 page 3 / 9

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: electric storage plus photovoltaic system.	✓	✓	✓
The applicant must install a photovoltaic system with a capacity to generate at least 0.8 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	✓	✓	~
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		ı	
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: A509721 page 4 / 9

Construction		Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements				
	I construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in tion is not required where the area of new construction is less than 2m2, b) insulation specified where insulation already exists.	√	✓	✓
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)			
floor above existing dwelling or building.	nil			
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)			
internal wall shared with garage: cavity brick wall (R0.67)	nil			
flat ceiling, pitched roof	ceiling: R1.45 (up), roof: foil backed blanket (75 mm) medium (solar absorptance 0.475 - 0.70)			
raked ceiling, pitched/skillion roof: framed	ceiling: R1.74 (up), roof: foil backed blanket (75 mm) medium (solar absorptance 0.475 - 0.70)			
flat ceiling, flat roof: framed	ceiling: R1.58 (up), roof: foil backed blanket (75 mm) medium (solar absorptance 0.475 - 0.70)			

BASIX Certificate number: A509721 page 5 / 9

Glazing requ	uirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	d glazed do	ors							
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	~	✓	~
The following r	equirements i	must also	be satisfi	ed in relatior	n to each window and glazed door:			✓	✓
have a U-value must be calculated	and a Solar ated in accord	Heat Gair Iance with	n Coefficie n National	ent (SHGC) r Fenestratio	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 c. 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	✓	✓	✓
Pergolas with p	oolycarbonate	roof or si	milar tran	slucent mate	erial must have a shading coefficien	t of less than 0.35.		✓	✓
shades a perpe	endicular wind	dow. The	spacing b	etween batte	ens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	~
Window / door				-	Shading device	Frame and glass type			
no.	Grieniadion	glass inc. frame (m2)	Height (m)	Distance (m)		Traine and glass type			
	W	4.98	0	0	eave/verandah/pergola/balcony	aluminium, double Lo-Tsol/air gap/clear,			
W1	VV				>=600 mm	(U-value: 4.9, SHGC: 0.33)			
W1 W2	W	9.46	0	0	>=600 mm eave/verandah/pergola/balcony >=600 mm				
		9.46 5.22	0	0	eave/verandah/pergola/balcony	(U-value: 4.9, SHGC: 0.33) improved aluminium, single pyrolytic low-e,			
W2	W				eave/verandah/pergola/balcony >=600 mm eave/verandah/pergola/balcony	(U-value: 4.9, SHGC: 0.33) improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46) improved aluminium, single clear, (U-value:			

BASIX Certificate number: A509721 page 6 / 9

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)	dowing Distance (m)	Shading device	Frame and glass type			
W6	S	0.9	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W7	S	0.9	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W8	W	0.9	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W9	S	2.1	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W10	S	2.1	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W11	S	2.1	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W12	Е	0.9	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W13	S	1.89	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W14	S	2.44	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W15	Е	1.89	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W16	Е	3.72	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W17	Е	3.3	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W18	Е	3.2	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			

BASIX Certificate number: A509721 page 7 / 9

Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	glass inc. frame	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W19	E	(m2) 3.2	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W20	E	3.2	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W21	E	7.48	0	0	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
D12	Е	6.8	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W23	W	3.2	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W24	W	1.36	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W25	W	1.36	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W26	S	1.36	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W27	S	0.97	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W28	S	0.97	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W29	S	0.97	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W30	W	0.97	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W39	E	1.5	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			

BASIX Certificate number: A509721 page 8 / 9

Glazing requ	Glazing requirements									
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type				
W32	S	2.05	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)				
W33	S	2.05	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)				
W34	Е	0.97	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)				
W35	S	1.5	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)				
W36	S	2	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)				
W37	Е	1.5	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)				
W38	Е	3.16	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)				
W42	N	4.4	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)				
W45	Е	6.14	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)				

BASIX Certificate number: A509721 page 9 / 9

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.