BASIX Certificate

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

Alterations and Additions

Certificate number: A414587 02

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: Sunday, 10, April 2022

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



Projection Projection

Project address									
Project name	Tweedale_02								
Street address	52 pitt Road North Curl Curl 2099								
Local Government Area	Northern Beaches Council								
Plan type and number	Deposited Plan 6143								
Lot number	12								
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: Architexture

ABN (if applicable): 132171067

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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 1771 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 137 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		1	
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 23 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.		✓	✓
Outdoor spa		1	
The spa must not have a capacity greater than 4 kilolitres.	✓	✓	✓
The spa must have a spa cover.		✓	✓
The applicant must install a spa pump timer.		✓	✓
The applicant must install the following heating system for the outdoor spa that is part of this development: solar (gas boosted).		✓	✓

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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.		✓	✓
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					
	d construction (floor(s), walls, and ceilings/roofs) tion is not required where the area of new construments where insulation already exists.		✓	✓	✓
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
suspended floor with enclosed subfloor: concrete (R0.6).	R0.70 (down) (or R1.30 including construction)				
suspended floor above garage: concrete (R0.6).	nil				
floor above existing dwelling or building.	nil				
external wall: cavity brick	nil				
external wall: external insulated façade system (EIFS)(façade panel: 70 mm)	nil				
external wall: brick veneer	R1.16 (or R1.70 including construction)				
external wall: concrete block/plasterboard	R1.18 (or R1.70 including construction)				
internal wall shared with garage: 200 mm AAC block (R1.31)	nil				
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: R2.08 (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 0.70)			

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Glazing re	equirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check					
Windows a	and glazed do	ors							
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	✓	✓	✓
The followin	g requirements	must also	be satisfi	ed in relation	n to each window and glazed door:			✓	✓
have a U-va must be cald	llue and a Solar culated in accor	Heat Gair dance with	n Coefficie h National	ent (SHGC) i l 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 . The description is provided for information		✓	✓
	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.								✓
	For projections described as a ratio, the ratio of the projection from the wall to the height above the window or glazed door sill must be at least that shown in the table below.							✓	✓
Pergolas wit	th polycarbonate	e roof or s	imilar 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		✓	✓
	ving buildings or the 'overshadov				nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows	and glazed	doors g	lazing r	equireme	nts				
Window / do no.	oor Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W1	S	7.2	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W2	E	4.2	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W3	S	5.5	0	0	eave/verandah/pergola/balcony	improved aluminium, single pyrolytic low-e,			

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Glazing requirements									Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
					>=900 mm	(U-value: 4.48, SHGC: 0.46)			
W4	E	0.75	4	4.1	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W5	E	6.5	6.5	4.1	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W6	S	4.1	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W7	W	1.2	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W8	S	4.5	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W9	W	9.6	6.5	5.8	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W10	N	3.3	6.5	3.4	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W11	S	2.9	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W12	S	1	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W13	S	7	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W14	S	4.6	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W15	E	8.5	5.9	1.7	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W16	E	6.9	2.8	1.7	none	improved aluminium, single pyrolytic low-e,			

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Glazing req	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check						
Window / doc no.	r Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
						(U-value: 4.48, SHGC: 0.46)			
W17	E	4.8	0	0	projection/height above sill ratio >=0.23	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W18	E	3	0	0	projection/height above sill ratio >=0.23	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W19	W	7.2	3.5	1.8	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W20	W	5	0	0	projection/height above sill ratio >=0.29	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W21	S	1.1	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W22	W	3	0	0	projection/height above sill ratio >=0.29	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W23	N	2.5	6.5	3.5	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W24	S	12.7	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W25	S	1.9	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W26	E	1.6	0	0	projection/height above sill ratio >=0.23	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W27	N	16.2	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W28	W	2.7	0	0	projection/height above sill ratio >=0.29	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W29	W	2.7	0	0	projection/height above sill ratio	improved aluminium, single pyrolytic low-e,			

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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			
					>=0.29	(U-value: 4.48, SHGC: 0.46)			
W30	S	2.4	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W31	W	2.4	0	0	projection/height above sill ratio >=0.29	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			

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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.