BASIX Certificate

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

Alterations and Additions

Certificate number: A353450 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

Secretarv

Date of issue: Wednesday, 11, December 2019 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	33 PARR AVENUE_02
Street address	33 PARR Avenue NORTH CURL CURL 2099
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 13900
Lot number	17
Section number	
Project type	
Dwelling type	Attached dwelling house
Type of alteration and addition	My renovation work is valued at \$50,000 or mor and includes a pool (and/or spa).

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

Name / Company Name: Action Plans

ABN (if applicable): 17118297587

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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 1410 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 45 square metres of roof area.		\checkmark	\checkmark
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the outdoor spa.		\checkmark	\checkmark
Outdoor spa			
The spa must not have a capacity greater than 2.8 kilolitres.	\checkmark	~	\checkmark
The spa must have a spa cover.		\checkmark	\checkmark
The applicant must install a spa pump timer.		\checkmark	\checkmark
The applicant must install the following heating system for the outdoor spa that is part of this development: electric heat pump.		\checkmark	\checkmark

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	1		
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.		~	\checkmark
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.		\checkmark	\checkmark
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					
	d construction (floor(s), walls, and ceilings/roofs) tion is not required where the area of new constr where insulation already exists.		V	~	~
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with open subfloor: framed (R0.7).	R0.8 (down) (or R1.50 including construction)				
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: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R3.00 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			

Glazing r	equirement	S					Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows	and glazed	doors							
					nading devices, in accordance with each window and glazed door.	the specifications listed in the table below.	\checkmark	\checkmark	\checkmark
The followi	ng requireme	nts must also	be satisf	fied in relation	to each window and glazed door:			\checkmark	\checkmark
have a U-v	alue and a So	olar Heat Gai	n Coeffici	ent (SHGC) r		ed glass may either match the description, or, le below. Total system U-values and SHGCs s.		~	~
have a U-va must be ca	alue and a So alculated in ac	blar Heat Gai cordance wit	n Coeffici h Nationa	ent (SHGC) r	no greater than that listed in the tab	ear glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		~	~
					each eave, pergola, verandah, bal han 2400 mm above the sill.	lcony or awning must be no more than 500 mm	~	~	~
	ions describe hown in the ta		the ratio o	of the projection	on from the wall to the height above	e the window or glazed door sill must be at	\checkmark	\checkmark	\checkmark
Pergolas w	vith polycarbo	nate roof or s	similar trai	nslucent mate	erial must have a shading coefficier	nt of less than 0.35.		\checkmark	\checkmark
External lou	uvres and blir	nds must fully	v shade th	e window or	glazed door beside which they are	situated when fully drawn or closed.		~	\checkmark
					e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		\checkmark	\checkmark
Windows	s and glaze	ed doors g	lazing ı	requiremen	nts				
Window / c no.	door Orientat	ion Area of glass inc. frame (m2)	Oversh Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
D01	Ν	2.24	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W01	Ν	6.39	0	0	eave/verandah/pergola/balcony	standard aluminium, single clear, (or			

Glazing requ	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check						
Window / door	Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=900 mm	U-value: 7.63, SHGC: 0.75)			
W02	N	2.54	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W04	S	7.68	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W05	S	7.68	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D02	S	1.44	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W07	W	1.29	0	0	external louvre/blind (fixed)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W08	W	1.71	0	0	external louvre/blind (fixed)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W09	N	3.62	0	0	external louvre/blind (fixed)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	N	1.7	0	0	external louvre/blind (fixed)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D03	N	1.65	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	N	0.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	N	0.85	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W14	E	1.35	0	0	external louvre/blind (fixed)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W15	E	1.35	0	0	external louvre/blind (fixed)	standard aluminium, single clear, (or			

Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
						U-value: 7.63, SHGC: 0.75)			
D04	S	17.78	0	0	awning (adjustable) >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W17	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W18	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W19	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W20	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W21	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W22	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W23	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W24	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W25	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W26	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W27	N	0.76	0	0	projection/height above sill ratio >=0.23	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

Glazing require	ements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Skylights						
The applicant mus	\checkmark	\checkmark	\checkmark			
The following requirements must also be satisfied in relation to each skylight:						\checkmark
Each skylight 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.					\checkmark	~
Skylights glaz	ing requiremer	nts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	0.64	no shading	timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S2	0.64	no shading	timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			

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 "
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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.