BASIX Certificate

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

Alterations and Additions

Certificate number: A328515

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: Monday, 05, November 2018

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



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Project address			
Project name	52 Iluka Road Palm Beach		
Street address	52 Iluka Road Palm Beach 2108		
Local Government Area	Northern Beaches Council		
Plan type and number	Deposited Plan 14682		
Lot number	27		
Section number	0		
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: Rachel Hudson

ABN (if applicable): N/A

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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 1290 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 190 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 30 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: gas.		✓	✓
Outdoor spa		1	
The spa must not have a capacity greater than 2.3 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: gas.		✓	✓

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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: gas instantaneous.	✓	✓	✓
Lighting		1	
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.		✓	✓
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				'	
The applicant must construct the new or altered the table below, except that a) additional insular is not required for parts of altered construction via			V	√	✓
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor with in-slab heating system.	R1.00 (slab edge)	in-slab heating system			
suspended floor above garage: concrete and in-floor heating system (R0.6).	R0.40 (down) under + slab edge (or R1 including construction)	in-slab heating system			
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
external wall: cavity brick	nil				
internal wall shared with garage: single skin masonry (R0.18)	nil				
flat ceiling, flat roof: framed	ceiling: R1.58 (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 0.70)			

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Glazing requi	Glazing requirements								Certifier Check
Windows and	glazed do	ors							
					ading devices, in accordance with each window and glazed door.	the specifications listed in the table below.	✓	✓	✓
The following re	equirements r			✓	✓				
have a U-value	and a Solar I	Heat Gair	n Coefficie	ent (SHGC) n		d glass may either match the description, or, le below. Total system U-values and SHGCs s.		√	~
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.									~
					each eave, pergola, verandah, bal han 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with p	olycarbonate	roof or si	milar tran	slucent mate	rial must have a shading coefficien	t of less than 0.35.		✓	✓
					window or glazed door above which must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Overshadowing specified in the					t and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows an	d glazed o	doors g	lazing re	equiremen	nts				
Window / door	Orientation		Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W1	NE	12.3	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W2	NE	3.2	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			

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Glazing requirements								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			
W3	NE	1	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W4	NE	2.1	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W5	NE	5.1	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W6	NE	13.1	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W7	SE	1.2	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W8	SE	2.4	3.4	7.1	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W9	SE	2.3	3.4	6.1	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W10	SE	10.2	6.1	4.2	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W11	SE	2.5	3.4	4	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W12	SE	7.5	3.4	4	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W13	SW	7.8	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W14	SW	10.1	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W15	SW	16.4	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			

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Glazing req	Glazing requirements							Show on CC/CDC Plans & specs	Certifier Check
Window / doo	r Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W16	SW	1.4	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W17	SW	14.2	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W18	SW	6.3	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W19	SW	17.5	0	0	awning (adjustable) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W20	SW	1	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W21	NW	15	1.2	6.1	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W22	NW	1.5	3.6	1.6	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W23	NW	2.5	1.2	2.85	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
Skylights									
The applicant	must install th	e skylight	s in acco	rdance with t	he specifications listed in the table b	pelow.	✓	✓	✓
The following	The following requirements must also be satisfied in relation to each skylight:							✓	✓
	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 he table below.							✓	✓
Skylights g	lazing requ	uiremen	its						

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Glazing require	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check			
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	2	no shading	timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			

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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.