BASIX°Certificate

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

Alterations and Additions

Certificate number: A369731

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: Tuesday, 10, March 2020

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



escription of project

Project address	
Project name	Iluka Beach House
Street address	7A Iluka Road Palm Beach 2108
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 14682
Lot number	89
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: PASSER Architects

ABN (if applicable): 96194127103

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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 896 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 85 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 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: solar only.		✓	✓

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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					
	d construction (floor(s), walls, and ceilings/roofs) tion is not required where the area of new construments 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)				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R0.20 (up), roof: foil backed blanket (100 mm)	light (solar absorptance < 0.475)			
raked ceiling, pitched/skillion roof: framed	ceiling: R0.50 (up), roof: foil backed blanket (100 mm)	light (solar absorptance < 0.475)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	✓	✓	✓
The following re	The following requirements must also be satisfied in relation to each window and glazed door:								✓
have a U-value must be calcula	and a Solar lated in accord	Heat Gair Iance with	n Coefficie n National	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	✓	✓	✓
Pergolas with p	olycarbonate	roof or si	imilar tran	slucent mate	erial must have a shading coefficien	t of less than 0.35.		✓	✓
					e window or glazed door above which sens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Overshadowing specified in the					nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows an	d glazed o	loors g	lazing r	equireme	nts				
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	ndowing Distance (m)	Shading device	Frame and glass type			
W1	NW	10.3	8.4	8.6	awning (adjustable) >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W2	NE	5.5	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W3	SE	5.5	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W4	SE	1.6	0	0	none	timber or uPVC, single pyrolytic low-e,			

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Glazing requ	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check						
Window / dool no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
						(U-value: 3.99, SHGC: 0.4)			
W5	SE	1.6	0	0	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W6	SE	1.7	0	0	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W7	SE	1.7	0	0	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W8	SE	2.6	0	0	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W9	SE	0.6	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W10	SE	0.6	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W11	NW	0.8	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W12	NE	3.3	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W13	NE	8.0	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W14	SE	0.8	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W15	SE	8.0	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W16	SW	8.0	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W17	SW	0.8	0	0	eave/verandah/pergola/balcony	timber or uPVC, single pyrolytic low-e,			

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Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / c	door Orientation	Area of glass inc.	Height	adowing Distance (m)	Shading device	Frame and glass type			
		frame (m2)	(m)	(111)					
					>=600 mm	(U-value: 3.99, SHGC: 0.4)			
D1	NW	5.6	1.8	2.75	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D2	NW	5.6	3.5	2.3	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D3	NE	10.6	4.6	10.88	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D4	NW	10.3	8.4	8.6	awning (adjustable) >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D5	SW	10.6	5.6	14	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D6	NW	5.6	3.5	2.2	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D7	NW	5.6	3.5	2.2	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D8	NE	10.6	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D9	SE	2.16	0	0	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
Skylights									
The applica	ant must install th	e skylight	s in acco	rdance with t	he specifications listed in the table b	pelow.	✓	✓	✓
The following	ng requirements i	must also	be satisf	ied in relatior	n to each skylight:			✓	✓
Each skylig	ght may either ma	atch the de	escription	, or, have a l	J-value and a Solar Heat Gain Coef	ficient (SHGC) no greater than that listed in		✓	_

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Glazing require	ements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
the table below.						
Skylights glaz	ing requiremen	nts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	1	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S2	1	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S3	1	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S4	1	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			

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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.