BASIX°Certificate

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

Alterations and Additions

Certificate number: A393896

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: Friday, 04, December 2020

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



Description of project

	Project address			
	Project name	Bolewski		
)	Street address	17 Bilberry Avenue Bilgola Plateau 2107		
	Local Government Area	Northern Beaches Council		
	Plan type and number	Deposited Plan 24536		
	Lot number	21		
	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: Jo Willmore Designs

ABN (if applicable): 27370370713

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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 1011 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 80 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 36 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.		✓	✓

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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	<u>.</u>		
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	V	√	√		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	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)				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.74 (up), roof: foil backed blanket (55 mm)	dark (solar absorptance > 0.70)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	d glazed do	ors							
The applicant r	✓	✓	~						
The following r	equirements		✓	✓					
	and a Solar	d glass may either match the description, or, le below. Total system U-values and SHGCs s.		✓	✓				
have a U-value	and a Solar ated in accord	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		✓	✓				
For projections above the head	described in	millimetre ow or glaz	es, the lea ed door a	nding edge of nd no more	f each eave, pergola, verandah, bald than 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with p	oolycarbonate	e roof or s	imilar tran	slucent mate	erial must have a shading coefficien	t of less than 0.35.		✓	✓
External louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed.								✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.								✓	✓
Windows a	nd glazed o	doors g	lazing r	equireme	nts				
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W1	W	4.5	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W2	W	8.4	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W3	N	5.3	0	0	eave/verandah/pergola/balcony	standard aluminium, single pyrolytic low-e,			

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Glazing requirements						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)	Distance (m)	Shading device	Frame and glass type			
					>=600 mm	(U-value: 5.7, SHGC: 0.47)			
W4	E	3	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	N	2.8	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W6	Е	7.8	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W2a	W	2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
Skylights									
The applicant n	nust install the	e skylight	s in accor	dance with th	ne specifications listed in the table	below.	✓	~	✓
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 the table below.							✓	✓	
Skylights glazing requirements									
Skylight number Area of glazing inc. frame (m2) Area of glazing shading device Frame and glass type									
S1	1		no shad	ing	timber, do	ouble 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.