## **BASIX** Certificate

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

## Alterations and Additions

Certificate number: A399572

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: Friday, 18, December 2020 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project address	
Project name	Semedo House
Street address	6 Dorrigo Avenue NORTH BALGOWLAH 2093
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 23447
Lot number	19
Section number	
Project type	
Project type Dwelling type	Separate dwelling house

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

Name / Company Name: Site Specific Designs

ABN (if applicable): 28464402548

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 1087 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 100 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 2.543 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: solar (gas boosted).		$\checkmark$	$\checkmark$

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.	$\checkmark$	$\checkmark$	~
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.		$\checkmark$	$\checkmark$
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.		$\checkmark$	

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
	d construction (floor(s), walls, and ceilings/roofs) ation is not required where the area of new const where insulation already exists.		<ul> <li>✓</li> </ul>	~	~
Construction	Additional insulation required (R-value)	Other specifications			
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)				
flat ceiling, flat roof: framed	ceiling: R2.08 (up), roof: foil backed blanket (55 mm)	dark (solar absorptance > 0.70)			

Glazing requ	Glazing requirements								
Windows and	glazed do	ors							1
					nading devices, in accordance with each window and glazed door.	the specifications listed in the table below.	~	~	~
The following re	equirements		~	$\checkmark$					
have a U-value must be calcula	and a Solar ited in accord	Heat Gair Jance with	n Coefficie n National	nt (SHGC) r Fenestratior	o 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		~	~
	or projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mi pove the head of the window or glazed door and no more than 2400 mm above the sill.							$\checkmark$	~
Pergolas with p	Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.							$\checkmark$	$\checkmark$
External louvres	External louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed.							$\checkmark$	$\checkmark$
					e window or glazed door above whi ons must not be more than 50 mm.	ich they are situated, unless the pergola also		~	~
Overshadowing specified in the					at and distance from the centre and	I the base of the window and glazed door, as	$\checkmark$	~	~
Windows an	d glazed o	doors g	lazing r	equiremer	nts		-		
Window / door no.		-	Oversha Height (m)		Shading device	Frame and glass type			
W1	N	0.45	5.3	5.9	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W2	N	1.57	6	5.4	awning (adjustable) >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W3	N	13.57	6	5.4	awning (adjustable) >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			

Glazing requ	lazing requirements								Certifier Check
Window / door	Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W4	W	14.58	10	12.4	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W5	W	3.17	8	12.4	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W6	W	1.26	6.2	12.4	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W7	S	1.35	3.7	4.3	none	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W8	S	3.28	0.9	4.3	none	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W9	E	4.05	6.5	7.5	eave/verandah/pergola/balcony >=750 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W10	N	0.9	6.8	8	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W11	E	4.89	6.8	8	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W12	E	6	5.5	12.2	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W13	E	0.5	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W14	N	9.6	2.9	5.7	external louvre/blind (fixed)	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W15	W	1.62	7.4	17	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W16	W	1.35	5.4	17	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

Glazing requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check	
Window / d	door Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W17	N	1.35	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W18	W	1.57	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W19	S	3.05	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W20	S	0.28	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W21	S	7.72	0	0	external louvre/blind (fixed)	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W22	E	9.11	4	8	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W23	E	6.26	4.5	8	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W24	E	1.61	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
Skylights									
The applica	ant must install th	e skylight	s in acco	rdance with t	he specifications listed in the table b	pelow.	<ul> <li></li> </ul>	$\checkmark$	$\checkmark$
The followir	ng requirements	must also	be satisf	ied in relatior	n to each skylight:			$\checkmark$	$\checkmark$
Each skylig the table be		itch the de	escription	, or, have a l	J-value and a Solar Heat Gain Coef	ficient (SHGC) no greater than that listed in		$\checkmark$	$\checkmark$
External aw	vnings and louvre	es must fu	Illy shade	the skylight	above which they are situated wher	a fully drawn or closed.		$\checkmark$	~

Glazing require	ements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Skylights glaz	ing requireme	nts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	1.27	external fixed awning or blind	timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S2	1.27	external fixed awning or blind	timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S3	1.27	external fixed awning or blind	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 "
"
"
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.