# **BASIX** Certificate

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

# **Alterations and Additions**

Certificate number: A363879

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: Thursday, 14, November 2019

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



## **Project address** Project name 4 Bungaloe Avenue BALGOWLAH HEIGHTS Street address 4 Bungaloe Avenue Balgowlah Heights 2093 Northern Beaches Council Local Government Area Deposited Plan 526584 Plan type and number Lot number 120 Section number Project type Separate dwelling house Dwelling type Type of alteration and My renovation work is valued at \$50,000 or more, and does not include a pool (and/or spa). addition

picase complete before administration of the control of the contro	Certificate Prepared by	(please complete before submitting to Council or PCA)
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Name / Company Name: Sam C.S. LAI

ABN (if applicable): N/A

escriptio

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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.		<b>✓</b>	~
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.		<b>✓</b>	✓
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.		<b>✓</b>	✓
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.		<b>✓</b>	

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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) ation is not required where the area of new const where insulation already exists.		<b>√</b>	<b>✓</b>	<b>√</b>
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with enclosed subfloor: concrete (R0.6).	R0.70 (down) (or R1.30 including construction)				
external wall: cavity brick	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)			

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Glazing requirements								Show on CC/CDC Plans & specs	Certifier Check
Windows a	and glazed o	doors							
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	<b>~</b>	<	<b>~</b>
The followin	g requirement	ts must also	be satisfi	ed in relation	n to each window and glazed door:			✓	✓
Each window or glazed door with standard aluminium or timber frames and single clear or toned glass 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. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.								<b>√</b>	<b>✓</b>
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.									
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.									V
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.									<b>✓</b>
	ving buildings the 'overshado				nt and distance from the centre and	the base of the window and glazed door, as	<b>✓</b>	<b>✓</b>	<b>✓</b>
	and glazed			equireme	nts				
Window / do	oor Orientatio	on Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W1	S	1.722	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W2	E	1.23	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W3	S	2.25	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W4	E	11.77	30	17	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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Glazing requ	irements						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)	dowing Distance (m)	Shading device	Frame and glass type			
W5	Е	7.04	30	17	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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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.