# **BASIX** Certificate

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

## **Alterations and Additions**

Certificate number: A446537

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, 08, February 2022

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



# Description of project

Project address							
Project name	51 Radio - Bed and Balcony						
Street address	51 RFadio Street Balgowlah Heights 2093						
Local Government Area	Northern Beaches Council						
Plan type and number	Deposited Plan 13468						
Lot number	18						
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 does not include a pool (and/or spa).						

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

Name / Company Name: Blackadder Designs

ABN (if applicable): 32829136273

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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.		<b>~</b>	<b>✓</b>
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.		<b>✓</b>	<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.		✓	✓
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							
The applicant must construct the new or altered the table below, except that a) additional insula is not required for parts of altered construction	<b>√</b>	<b>√</b>	<b>√</b>				
Construction	struction Additional insulation required (R-value) Other specifications						
suspended floor with open subfloor: framed (R0.7).	R0.8 (down) (or R1.50 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: R2.32 (up), roof: foil/sarking	light (solar absorptance < 0.475)					

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Glazing requ	uirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	d glazed do	ors							
	The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.							<b>✓</b>	<b>✓</b>
The following i	equirements i	must also	be satisfi	ed in relatio	n to each window and glazed door:			<b>✓</b>	✓
have a U-value must be calcul	e and a Solar ated in accord	Heat Gair dance with	n Coefficie h National	ent (SHGC) Fenestratio	no greater than that listed in the table	ear glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		~	<b>✓</b>
					f each eave, pergola, verandah, bal than 2400 mm above the sill.	cony or awning must be no more than 500 mm	<b>✓</b>	<b>✓</b>	✓
Pergolas with	oolycarbonate	roof or s	imilar tran	slucent mat	erial must have a shading coefficien	nt of less than 0.35.		✓	✓
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>	✓	
	Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blades must overlap in plan view.							✓	<b>✓</b>
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.						<b>✓</b>	<b>✓</b>	✓	
Windows a	nd glazed o	doors g	lazing r	equireme	nts				
	oor Orientation Area of Overshadowing Shading device Frame and glass type		Frame and glass type						
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W1	S	0.48	0.93	5.04	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W2	S	1.1	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W3	W	1.26	1	6.4	eave/verandah/pergola/balcony	improved aluminium, single pyrolytic low-e,			

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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)	Distance (m)	Shading device	Frame and glass type			
					>=450 mm	(U-value: 4.48, SHGC: 0.46)			
W4	W	1.96	1	6.4	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
D1	N	4.75	0	0	pergola (adjustable shade) >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D2	W	0.66	0	0	pergola (adjustable shade) >=900 mm	improved aluminium, single clear, (U-value: 6.44, 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.