# **BASIX** Certificate

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

## **Alterations and Additions**

Certificate number: A433480

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, October 2021

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



# Description of project

Project address								
Project name	23 Dobroyd Road, Balgowlah Heights, NSW 2093							
Street address	23 Dobroyd Road Balgowlah Heights 2093							
Local Government Area	Northern Beaches Council							
Plan type and number	Deposited Plan 758044							
Lot number	12							
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: Energy Rating Group

ABN (if applicable): 34835436737

BASIX Certificate number: A433480 page 2 / 8

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			
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			
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.		✓	✓
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>&gt;</b>	

BASIX Certificate number: A433480 page 3 / 8

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
The applicant must construct the new or altere the table below, except that a) additional insula is not required for parts of altered construction	<b>√</b>	<b>✓</b>	<b>✓</b>		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
suspended floor above garage: framed (R0.7).	nil				
floor above existing dwelling or building.	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)				
flat ceiling, pitched roof	ceiling: R1.75 (up), roof: foil/sarking	light (solar absorptance < 0.475)			
raked ceiling, pitched/skillion roof: framed	ceiling: R1.76 (up), roof: foil/sarking	light (solar absorptance < 0.475)			

BASIX Certificate number: A433480 page 4 / 8

Glazing req	uirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check			
Windows an	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.											
The following	equirements		✓	✓								
have a U-value must be calcul	e and a Solar ated in accord	Heat Gair dance with	n Coefficie n National	ent (SHGC) r Fenestratio	no greater than that listed in the tabl	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs . The description is provided for information		~	<b>✓</b>			
					each eave, pergola, verandah, bal Than 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	<b>✓</b>			
For projections least that show	✓	✓	✓									
Pergolas with	Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.											
					e window or glazed door above which which will be wore than 50 mm.	ch they are situated, unless the pergola also		✓	<b>✓</b>			
Overshadowin specified in the	g buildings or e 'overshadow	vegetatio ring' colun	on must be nn in the t	e of the heigh able below.	nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	<b>✓</b>			
Windows a	nd glazed o	doors g	lazing r	equireme	nts							
Window / doo	Orientation		Oversha	dowing	Shading device	Frame and glass type						
no.		glass inc. frame (m2)	Height (m)	Distance (m)								
Bed 2	N	3.852	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)						
Entry Door	N	3.88	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)						
Kitchen	W	1.08	3	3.9	projection/height above sill ratio	improved aluminium, clear/air gap/clear,						

BASIX Certificate number: A433480 page 5 / 8

Glazing requ	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			
					>=0.43	(U-value: 4.12, SHGC: 0.66)			
Dining Bf	E	13.68	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Ldry	S	1.87	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Passage	S	2.11	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Ens	S	0.96	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Bed 3	E	1.08	6	1.8	none	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Wir	N	1.44	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Bed 5	N	4.32	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Gallery	N	4.32	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Rumpus	N	5.04	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Bed 4	W	0.99	0	0	awning (adjustable) >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Bed 4	S	2.7	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Bath	S	1.26	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Study	S	2.16	0	0	eave/verandah/pergola/balcony	improved aluminium, clear/air gap/clear,			

BASIX Certificate number: A433480 page 6 / 8

Glazing requ	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: 4.12, SHGC: 0.66)			
Ens	S	1.89	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Bed 1	Е	1.62	6	1.8	eave/verandah/pergola/balcony >=450 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Bed 1	N	4.266	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Lounge	N	7.899	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Lounge	W	1.62	3	3.9	eave/verandah/pergola/balcony >=450 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Butlers/Pa	W	1.11	3	3.9	eave/verandah/pergola/balcony >=450 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Dining/Liv	W	3.56	0	0	awning (adjustable) >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Dining/Liv	W	3.56	0	0	awning (adjustable) >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Dining/Liv	S	1.62	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Ens	E	0.96	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Bed 5	N	1.44	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Bed 5	N	1.44	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Gallery	N	1.44	0	0	eave/verandah/pergola/balcony	improved aluminium, clear/air gap/clear,			

BASIX Certificate number: A433480 page 7 / 8

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			
					>=900 mm	(U-value: 4.12, SHGC: 0.66)	]		
Galley	N	1.44	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Rumpus	N	1.44	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Rumpus	N	1.44	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, clear/air gap/clear, (U-value: 4.12, SHGC: 0.66)			
Skylights									
The applicant m	nust install th	e skylight	s in acco	rdance with t	he specifications listed in the table	below.	<b>V</b>	<b>✓</b>	<b>✓</b>
The following re	equirements i	must also	be satisf	ied in relatior	n to each skylight:			<b>✓</b>	_
Each skylight method the table below	nay either ma	tch the de	escription	, or, have a l	J-value and a Solar Heat Gain Coe	fficient (SHGC) no greater than that listed in		<b>✓</b>	✓
Skylights gl	azing requ	ıiremen	ts						
Skylight number	er Area of o		Shading	g device	Frame and	d glass type			
Wir	1.07		no shad	ling		<i>i-</i> E internal/argon fill/clear external, (or .5, SHGC: 0.456)	]		
Ens	0.46		no shad	ling		v-E internal/argon fill/clear external, (or .5, SHGC: 0.456)			
Bath	0.89		no shad	ling		v-E internal/argon fill/clear external, (or .5, SHGC: 0.456)			

BASIX Certificate number: A433480 page 8 / 8

### 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.