BASIX Certificate

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

Alterations and Additions

Certificate number: A254244 02

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 18/09/2014 published by Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

This certificate is a revision of certificate number A254244 lodged with the consent authority or certifier on 20 Jul 2016 with application DA2016/0728.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Sch 1 Cl 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000

Director-General

Date of issue: Friday, 27, January 2017

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



Description of project

Project address	
Project name	Byrne - Green_02
Street address	27b Mcdonald Street Freshwater 2096
Local Government Area	Warringah Council
Plan type and number	Deposited Plan 402032
Lot number	38B
Section number	0
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: JJDrafting

ABN (if applicable): 37 427 224 361

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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			
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					
	d construction (floor(s), walls, and ceilings/roofs) ation is not required where the area of new construction where insulation already exists.		√	✓	✓
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R2.50 (up), roof: foil/sarking	dark (solar absorptance > 0.70)			

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Glazing	requirement	is					Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows	and glazed	doors							
The applic	cant must insta	all the window g specification	rs, glazed ns must be	doors and she satisfied for	nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	✓	✓	~
The follow	ing requireme	nts must also	be satisfi	ed in relation	n to each window and glazed door:			✓	✓
have a U-v	value and a So	olar Heat Gai	n Coefficie	ent (SHGC) r		ed glass may either match the description, or, le below. Total system U-values and SHGCs s.		✓	✓
have a U-v must be ca	value and a So alculated in ac	olar Heat Gair cordance with	n Coefficie h National	ent (SHGC) r Fenestration	no 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		~	~
					each eave, pergola, verandah, bal han 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
	tions describe shown in the ta		he ratio of	the projection	on from the wall to the height above	e the window or glazed door sill must be at	✓	✓	~
Pergolas v	with polycarbo	nate roof or s	imilar tran	slucent mate	erial must have a shading coefficien	nt of less than 0.35.		✓	✓
External lo	ouvres and blir	nds must fully	shade the	e window or	glazed door beside which they are	situated when fully drawn or closed.		✓	✓
					e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Window	s and glaze	ed doors g	lazing r	equireme	nts				
Window / no.	door Orienta	tion Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W1	E	4.56	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W2	N	1.302	0	0	projection/height above sill ratio	standard aluminium, single clear, (or			

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Glazing requirements								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			
					>=0.36	U-value: 7.63, SHGC: 0.75)			
W3	N	1.302	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W4	N	1.302	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	N	1.302	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	W	14.4	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W7	S	8.64	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W8	W	4.32	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W9	W	6.48	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	E	3.6	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W11	N	1.302	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	N	1.302	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	W	8.4	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W14	W	0.315	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W15	W	0.81	0	0	eave/verandah/pergola/balcony	standard aluminium, single clear, (or			

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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			
					>=900 mm	U-value: 7.63, SHGC: 0.75)			
W16	W	0.81	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W17	S	2.16	0	0	eave/verandah/pergola/balcony >=900 mm	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.