# **BASIX** Certificate

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

## **Alterations and Additions**

Certificate number: A397732

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, 26, November 2020

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



## **Project address** Project name Paice & Kennedy 9 Bate Avenue Allambie Heights 2100 Street address Local Government Area Northern Beaches Council Deposited Plan 588372 Plan type and number 1 Lot number Section number Project type Separate dwelling house Dwelling type Type of alteration and My renovation work is valued at \$50,000 or more, addition and does not include a pool (and/or spa).

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

Name / Company Name: Duffy Regan Design

ABN (if applicable): 93 723 012 005

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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			
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.		✓	✓
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>	

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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 insular is not required for parts of altered construction	<b>V</b>	<b>√</b>	<b>√</b>		
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: 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: R1.20 (up), roof: foil backed blanket (55 mm)	light (solar absorptance < 0.475)			
raked ceiling, pitched/skillion roof: framed	ceiling: R1.50 (up), roof: foil backed blanket (55 mm)	light (solar absorptance < 0.475)			

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Glazing requ	Glazing requirements							Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
					ading devices, in accordance with each window and glazed door.	the specifications listed in the table below.	<b>~</b>	<b>✓</b>	~
The following re	equirements r	must also	be satisfi	ed in relation	to each window and glazed door:			<b>✓</b>	<b>✓</b>
have a U-value	and a Solar	Heat Gair	n Coefficie	ent (SHGC) n		d glass may either match the description, or, le below. Total system U-values and SHGCs		<b>✓</b>	<b>~</b>
have a U-value must be calcula	and a Solar lated in accord	Heat Gair Iance with	n Coefficie n National	ent (SHGC) n Fenestration	o greater than that listed in the tabl	ar 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>	<b>✓</b>
					each eave, pergola, verandah, bal han 2400 mm above the sill.	cony or awning must be no more than 500 mm	<b>✓</b>	<b>✓</b>	<b>✓</b>
Pergolas with p	olycarbonate	roof or si	milar tran	slucent mate	rial must have a shading coefficien	t of less than 0.35.		<b>✓</b>	✓
					window or glazed door above which must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	<b>✓</b>
Overshadowing specified in the					t and distance from the centre and	the base of the window and glazed door, as	✓	✓	<b>✓</b>
Windows an	d glazed d	doors g	lazing r	equiremen	nts				
Window / door	Orientation			dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W1	N	2.16	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W2	N	2.16	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			

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Glazing requirements							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			
W3	N	9.48	11.2	15	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W4	S	1.08	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W5	Е	1.6	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W6	S	1.65	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W7	S	1.65	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W8	S	1.65	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W9	W	8.27	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W10	S	2.79	0	0	none	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W11	S	1.72	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W12	W	2.07	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W13	W	3.1	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W14	N	0.44	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W15	N	1.89	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			

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Glazing requirements							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			
W16	N	6.19	8	15	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W17	N	3.33	5.6	15	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W18	N	1.89	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W19	N	0.44	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W20	Е	1.3	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W21	N	1.89	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W22	Е	1.3	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W23	S	6.19	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W24	S	2.52	0	0	none	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W25	W	0.87	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W26	W	0.87	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
Skylights									
The applicant r	nust install th	e skylights	s in accor	dance with th	ne specifications listed in the table t	pelow.	<b>✓</b>	<b>✓</b>	✓

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Glazing require	ements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
The following requ	uirements must also	be satisfied in relation to each	skylight:		<b>✓</b>	✓
Each skylight may the table below.		✓	<b>✓</b>			
Skylights glaz	ing requiremen	ts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S1	0.385	no shading	aluminium, moulded plastic single clear, (or U-value: 6.21, SHGC: 0.808)			

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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.