BASIX Certificate

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

Alterations and Additions

Certificate number: A441416 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 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Tuesday, 08, March 2022

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



Description of project

Project address					
Project name	Jon & Laura Ducker_02				
Street address	3 Lumeah Avenue Elanora Heights 2102				
Local Government Area	Northern Beaches Council				
Plan type and number	Deposited Plan DP 24360				
Lot number	LOT 10				
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: W.P.O'Brien & co

ABN (if applicable): 94 517 511 283

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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					
	ed construction (floor(s), walls, and ceilings/roofs) ation is not required where the area of new const where insulation already exists.		√	√	V
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: R0.70 (up), roof: foil backed blanket (55 mm)	light (solar absorptance < 0.475)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	d glazed do	ors					•		
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	~	✓	~
The following re	equirements	must also	be satisf	ed in relation	n to each window and glazed door:			✓	✓
have a U-value	and a Solar	Heat Gair	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-value must be calcula	and a Solar	Heat Gair dance with	n Coefficion h Nationa	ent (SHGC) r l Fenestratio	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 Than 2400 mm above the sill.	lcony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with p	olycarbonate	e roof or s	imilar trar	slucent mate	erial must have a shading coefficien	nt of less than 0.35.		✓	✓
					e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Overshadowing specified in the					nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows ar	nd glazed o	doors g	lazing r	equireme	nts				
Window / door no.				<u> </u>	Shading device	Frame and glass type			
W1	E	1.95	3	5	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W2	E	3.12	3	1.5	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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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)	Distance (m)	Shading device	Frame and glass type			
W3	Е	8.65	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W4	N	1.44	3	1.5	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W5	W	7.14	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W6	W	1.89	1.2	0.3	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W7	S	2.16	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W8	E	1.8	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W9	Е	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W10	Е	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W11	S	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	E	10.08	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W13	N	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W14	N	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W15	W	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			

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Glazing requirements								Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation		Oversha	adowing	Shading device		Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)						
W16	W	2.16	0	0	eave/verandah/pergol >=600 mm	a/balcony	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W17	W	0.9	0	0	eave/verandah/pergol >=600 mm	a/balcony	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W18	W	1.08	0	0	eave/verandah/pergol >=600 mm	a/balcony	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W19	W	1.08	0	0	eave/verandah/pergol >=600 mm	a/balcony	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W20	W	0.9	0	0	eave/verandah/pergola/balcony >=600 mm		improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
Skylights										
The applicant i	must install th	e skylight	s in acco	rdance with t	he specifications listed i	n the table b	elow.	✓	✓	✓
The following r	equirements	must also	be satisf	ied in relatior	to each skylight:				✓	✓
Each skylight r		itch the de	escription	, or, have a l	J-value and a Solar Hea	t Gain Coef	icient (SHGC) no greater than that listed in		✓	✓
Skylights g	lazing requ	uiremen	its							
Skylight numb	er Area of of inc. fram		Shading	g device		Frame and	glass type			
S1	0.72		no shad	no shading timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)						
S2	0.72		no shading timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)							

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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.