# **BASIX** Certificate

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

## **Alterations and Additions**

Certificate number: A381829

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: Monday, 10, August 2020

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



# Project address Project name Street address Local Government Area Plan type and number Lot number Section number Project type Dwelling type Type of alteration and addition

ABN (if applicable): N/A

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Certificate Prepared by (please complete before submitting to Council or PCA)	
Name / Company Name: Laura Cook	

Ryan Musacchio Residence

Northern Beaches Council
Deposited Plan 231634

Separate dwelling house

3

15 Burrendong Place Avalon Beach 2107

My renovation work is valued at \$50,000 or more,

and does not include a pool (and/or spa).

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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.	<b>✓</b>	<b>V</b>	<b>✓</b>
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			'		
	ation is not required where the area of new cons	) in accordance with the specifications listed in struction is less than 2m2, b) insulation specified	<b>V</b>	<b>V</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)				
suspended floor above garage: framed (R0.7).	nil				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R2.26 (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 an	d glazed do	ors							
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	<b>✓</b>	<b>✓</b>	<b>✓</b>
The following	equirements i	must also	be satisfi	ed in relatior	n to each window and glazed door:			✓	✓
Each window of have a U-value must be calcul	and a Solar		<b>✓</b>	<b>✓</b>					
have a U-value	e and a Solar ated in accord	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs c. 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 mate	erial must have a shading coefficien	t of less than 0.35.		<b>✓</b>	✓
External louvre	es and blinds i	must fully	shade the	e window or	glazed door beside which they are	situated when fully drawn or closed.		<b>✓</b>	✓
Pergolas with shades a perp	ixed battens r endicular wind	must have dow. The	e battens spacing b	parallel to the etween batte	e window or glazed door above which ens must not be more than 50 mm.	ch they are situated, unless the pergola also		<b>✓</b>	<b>✓</b>
Windows a	nd glazed o	doors g	lazing r	equireme	nts				
Window / doo no.	Orientation	Area of glass	Oversha		Shading device	Frame and glass type			
		inc. frame (m2)	Height (m)	Distance (m)					
W1	NE	7.8	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W2	NE	7.8	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W3	SW	7.1	0	0	eave/verandah/pergola/balcony	timber or uPVC, single clear, (or U-value:			

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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			
					>=900 mm	5.71, SHGC: 0.66)			
W4	SW	1.9	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W5	SW	6.7	0	0	external louvre/blind (adjustable)	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W6	SE	1.9	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single toned, (or U-value: 5.67, SHGC: 0.49)			
W7	NE	2.3	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W8	NE	0.4	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W9	NE	7.5	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W10	NW	2.8	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W11	NW	2.8	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W12	SW	7.5	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W13	SW	7.6	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W14	NE	4.1	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W15	NW	1.9	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W16	SW	0.7	0	0	none	timber or uPVC, single clear, (or U-value:			

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Glazing requir	ements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door (no.	gla inc	He : me		owing Distance (m)	Shading device		Frame and glass type			
							5.71, SHGC: 0.66)			
Skylights										
The applicant mu	ist install the sk	ylights in	accorda	ance with th	ne specifications listed i	n the table b	elow.	<b>✓</b>	<b>✓</b>	
The following req	uirements must	t also be s	satisfied	d in relation	to each skylight:				✓	✓
the table below.	•		iption, c	or, have a U	l-value and a Solar Hea	t Gain Coeff	ficient (SHGC) no greater than that listed in		<b>√</b>	<b>✓</b>
Skylights glass Skylight number			nading d	device		Frame and	dlass type			
Skylight Hamber	inc. frame (m		iddii ig d	201100		Tramo ana	grade type			
S1	0.8	no	shadin	g			E internal/argon fill/clear external, (or 5, SHGC: 0.456)			
S2	0.8	no	shadin	g			E internal/argon fill/clear external, (or 5, SHGC: 0.456)			
S3	0.8	no	shadin	g			E internal/argon fill/clear external, (or 5, SHGC: 0.456)			
S4	0.8	no	shadin	g			E internal/argon fill/clear external, (or 5, SHGC: 0.456)			
S5	0.6	no	shadin	g			E internal/argon fill/clear external, (or 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.