# **BASIX** Certificate

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

## **Alterations and Additions**

Certificate number: A429882 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: Monday, 06, September 2021

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): 43150064592

escriptio

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

Willis 02

2102

49 Quinlan Parade Manly Vale 2093

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

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

Northern Beaches Council
Deposited Plan 752038

Separate dwelling house

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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: electric heat pump system that is eligible to create Renewable Energy Certificates under the (Commonwealth) Renewable Energy (Electricity) Regulations 2001 (incorporating Amendment Regulations 2005 (No. 2)).	<b>✓</b>	<b>~</b>	<b>~</b>
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>V</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.		✓	

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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.		<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)				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
external wall: brick veneer	R1.16 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R1.45 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			

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Glazing re	equirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows	and glazed d	oors							
					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	ng requirements	must also	be satisf	ed in relation	n to each window and glazed door:			✓	✓
have a U-va	alue and a Sola Ilculated in acco	r Heat Gaii rdance witl	n Coefficion n Nationa	ent (SHGC) r l Fenestratio	no greater than that listed in the table	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>
					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>
	ions described a hown in the tabl		he ratio o	f the projection	on from the wall to the height above	the window or glazed door sill must be at	<b>✓</b>	✓	<b>✓</b>
Pergolas w	vith polycarbona	te roof or s	imilar trar	slucent mate	erial must have a shading coefficien	at of less than 0.35.		✓	✓
					e window or glazed door above which should be more than 50 mm.	ch they are situated, unless the pergola also		✓	<b>✓</b>
Windows	s and glazed	doors g	lazing r	equireme	nts				
	door Orientation		Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W1	NW	3.24	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W2	NE	4.4	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W3	N	0.9	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W5	SE	2.64	0	0	eave/verandah/pergola/balcony	improved aluminium, single clear, (U-value:			

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Glazing requirements									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	6.44, SHGC: 0.75)			
W6	NW	3.96	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W7	NW	3.24	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W8	NE	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W9	NW	2.16	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W10	NE	1.44	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W11	SE	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W12	SE	0.9	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W13	SE	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W14	SW	2.88	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W15	SW	0.75	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W16	SW	3.24	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D1	NW	3.58	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D2	N	8.82	0	0	projection/height above sill ratio	improved aluminium, single clear, (U-value:			

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								Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / doc	dow / door Orientation Area of Overshadowing Shading device Frame and glass type									
no.		glass inc. frame (m2)	Height (m)	Distance (m)						
					>=0.43		6.44, SHGC: 0.75)			
D3	S	5.46	0	0	projection/height abov >=0.43	e sill ratio	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D4	SE	11.34	0	0	projection/height abov >=0.43	e sill ratio	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D5	SW	10.08	0	0	projection/height abov >=0.43	projection/height above sill ratio improved aluminium, single clear, (lear, section) >=0.43 improved aluminium, single clear, (lear, section) impr				
D6	NW	5.82	0	0	projection/height above sill ratio >=0.43		improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D3a	S	9.45	0	0	projection/height above sill ratio >=0.29		improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Skylights										
The applicant	must install th	e skylight	s in acco	dance with t	he specifications listed in	n the table b	pelow.	V	<b>✓</b>	✓
The following	requirements	must also	be satisfi	ied in relatior	n to each skylight:				<b>✓</b>	✓
Each skylight may either match the description, or, have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below.							✓	✓		
Skylights glazing requirements										
Skylight number Area of glazing inc. frame (m2)  Shading device Frame and glass type										
S1	0.93		no shad	ling		timber, dou	ble clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S2	0.65		no shad	ling		timber, dou	ble clear/air fill, (or U-value: 4.3, SHGC: 0.5)			

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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.