BASIX Certificate

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

Alterations and Additions

Certificate number: A426830

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, 23, September 2021

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



Description of project

Project address	
Project name	2111
Street address	10 Nooal Street Newport 2106
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 535272
Lot number	481
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 includes a pool (and/or spa).
Number of bedrooms after alterations or additions	5

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

Name / Company Name: Matt Thitchener

ABN (if applicable): N/A

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Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank			
The applicant must install a rainwater tank of at least 2800 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	~	~
The applicant must configure the rainwater tank to collect rainwater runoff from at least 150 square metres of roof area.		✓	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool.		✓	✓
Outdoor swimming pool		1	
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 64 kilolitres.	✓	✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must install the following heating system for the swimming pool that is part of this development: solar only.		✓	✓

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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 storage plus photovoltaic system.	✓	✓	✓
The applicant must install a photovoltaic system with a capacity to generate at least 2.9 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	✓	✓	✓
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.		~	✓
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.		✓	✓
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.		V	

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Construction		Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements				
	construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in ion is not required where the area of new construction is less than 2m2, b) insulation specification is less than 2m2, b) insulation specification already exists.		~	✓
Construction	Additional insulation required (R-value) Other specifications			
concrete slab on ground floor.	nil			
suspended floor with enclosed subfloor: concrete (R0.6).	R0.70 (down) (or R1.30 including construction)			
suspended floor above garage: framed (R0.7).	nil			
floor above existing dwelling or building.	nil			
external wall: cavity brick	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)			
internal wall shared with garage: plasterboard (R0.36)	nil			
raked ceiling, pitched/skillion roof: framed	ceiling: R1.50 (up), roof: foil backed blanket (55 mm) light (solar absorptance < 0.475)			
flat ceiling, flat roof: framed	ceiling: R1.40 (up), roof: foil backed blanket (55 mm) light (solar absorptance < 0.475)			

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Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and glazed doors			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	✓	✓
For projections described as a ratio, the ratio of the projection from the wall to the height above the window or glazed door sill must be at least that shown in the table below.	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
External louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓
Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blades must overlap in plan view.		✓	✓
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	✓	✓	✓
Windows and glazed doors glazing requirements			
Window / door no. Area of glass inc. frame (m2) WLW1 Area of glass inc. frame (m2) Overshadowing Height (m) Distance (m) Shading device Frame and glass type Standard aluminium, single pyrolytic low-e,			

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Glazing requ	Blazing requirements								Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
						(U-value: 5.7, SHGC: 0.47)			
WLW2	W	6.5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WLW3	W	2.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGN1	N	10.1	0	0	projection/height above sill ratio >=0.29	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGE1	Е	2.5	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGE2	Е	2.7	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGE3	Е	3.9	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGE4	Е	4.1	6	4	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGS1	S	2.9	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGS2	S	0.6	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGS3	S	1.2	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGS4	S	10.5	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGW1	W	3.3	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WGW2	W	3.7	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e,			

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Glazing requ	Glazing requirements								Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	Shading device	Frame and glass type			
						(U-value: 5.7, SHGC: 0.47)			
WGW3	W	17.9	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1N1	N	2.4	0	0	projection/height above sill ratio >=0.36	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1N2	Е	12.4	0	0	pergola (adjustable shade) >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1E1	Е	4	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1E2	Е	4	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1E3	E	4	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1E4	Е	3.6	3	4	pergola (adjustable shade) >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1S1	S	0.4	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1S2	S	1.9	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1S3	S	1.3	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1S4	S	0.4	0	0	none	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1W1	W	9.8	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1W2	W	4.2	0	0	eave/verandah/pergola/balcony	standard aluminium, single pyrolytic low-e,			

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Glazing requ	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			
					>=900 mm		(U-value: 5.7, SHGC: 0.47)			
W1W3	W	11	0	0	eave/verandah/pergola/ba >=900 mm	alcony	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1W4	W	4.4	0	0	eave/verandah/pergola/ba >=750 mm	alcony	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1W5	W	3.4	0	0	eave/verandah/pergola/ba >=900 mm	alcony	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WCS1	S	1.7	0	0	projection/height above s >=0.43	ill ratio	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WCS2	S	2	0	0	projection/height above s >=0.43	ill ratio	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
Skylights										
The applicant r	must install th	e skylight	s in accoi	rdance with t	he specifications listed in th	ne table b	elow.	✓	✓	✓
The following r	equirements i	must also	be satisfi	ied in relatior	to each skylight:				✓	✓
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 gl	lazing requ	uiremen	ts							
Skylight number	<u>-</u>	glazing	Shading	g device	Fra	ame and	glass type			
S1	1.9		no shad	ling			E internal/argon fill/clear external, (or 5, SHGC: 0.456)			
S2	1.1		no shad	ling			E internal/argon fill/clear external, (or 5, SHGC: 0.456)			

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Glazing require	ements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
S3	1.1	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S4	0.36	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.