

BASIX[®]Certificate

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

Alterations and Additions

Certificate number: A429076

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, 30, August 2021

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



Planning,
Industry &
Environment

Description of project

Project address	
Project name	Formica Crown Rd
Street address	7 Crown Road Queenscliff 2095
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 514296
Lot number	2
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).

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

Name / Company Name: Bradley Dorn

ABN (if applicable): N/A

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 1126 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 100 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			
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 45 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
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: gas.		✓	✓

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.		✓	✓
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.		✓	

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m ² , b) insulation specified is not required for parts of altered construction where insulation already exists.			✓	✓	✓
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
suspended floor with open subfloor: concrete (R0.6).	R0.9 (down) (or R1.50 including construction)				
suspended floor with enclosed subfloor: concrete (R0.6).	R0.70 (down) (or R1.30 including construction)				
external wall: concrete block/plasterboard	R1.18 (or R1.70 including construction)				
external wall: cavity brick	nil				
internal wall shared with garage: cavity brick wall (R0.67)	nil				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.24 (up), roof: foil backed blanket (100 mm)	medium (solar absorptance 0.475 - 0.70)			
flat ceiling, flat roof: concrete/plasterboard internal	ceiling: R0.25 (up), roof: 50 mm foil backed polystyrene board	light (solar absorptance < 0.475)			

Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and glazed doors									
<p>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.</p> <p>The following requirements must also be satisfied in relation to each window and glazed door:</p> <p>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.</p> <p>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.</p> <p>Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.</p> <p>External louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed.</p> <p>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.</p>							✓	✓	✓
								✓	✓
							✓	✓	✓
								✓	✓
								✓	✓
Windows and glazed doors glazing requirements									
Window / door no.	Orientation	Area of glass inc. frame (m2)	Overshadowing		Shading device	Frame and glass type			
			Height (m)	Distance (m)					
W1	NW	2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W2	N	5.9	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W3	E	5.7	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W4	NW	3.6	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			

Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Overshadowing		Shading device	Frame and glass type			
			Height (m)	Distance (m)					
W5	N	12	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W6	SE	9	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W7	W	6.1	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W8	NW	3	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W9	NW	4	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W10	W	1	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W11	NW	2	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W12	NE	14.5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W13	E	14.8	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W14	E	9.4	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W15	SE	4.8	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W16	NW	2	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W17	N	5.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			

Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Overshadowing		Shading device	Frame and glass type			
			Height (m)	Distance (m)					
W18	W	3.4	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W19	N	1.5	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W20	E	16.8	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W21	E	6.4	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W22	SE	4.8	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W23	E	2.8	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W24	SW	2.1	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W25	SW	2.1	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W26	NW	3.3	0	0	external louvre/blind (fixed)	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W27	N	3.3	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W28	E	8.4	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W29	E	16.8	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W30	E	1.6	0	0	eave/verandah/pergola/balcony ≥900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			

Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Overshadowing		Shading device	Frame and glass type			
			Height (m)	Distance (m)					
W31	NE	5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W32	NE	7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
Skylights									
<p>The applicant must install the skylights in accordance with the specifications listed in the table below.</p> <p>The following requirements must also be satisfied in relation to each skylight:</p> <p>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.</p>							✓	✓ ✓ ✓	✓ ✓ ✓
Skylights glazing requirements									
Skylight number	Area of glazing inc. frame (m2)	Shading device			Frame and glass type				
S1	0.8	no shading			timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)				
S2	1.5	no shading			timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)				

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.