BASIX® Certificate

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

Alterations and Additions

Certificate number: A1775931

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 Definitions" dated 10/09/2020 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary
Date of issue: Wednesday, 04 December 2024
To be valid, this certificate must be lodged within 3 months of the date of issue.

NSW GOVERNMENT

Project address	
Project name	5 Roosevelt Avenue, Allambie Heights
Street address	5 ROOSEVELT Avenue ALLAMBIE HEIGHTS 2100
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan DP244469
Lot number	8
Section number	-

Project type	
Dwelling type	Dwelling house (detached)
Type of alteration and addition	The estimated development cost for my renovation work is $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: BAIKIE CORR PTY LTD

ABN (if applicable): 59620201112

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 4025.0000000000005 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 40 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 and outdoor spa.		✔	✔
Outdoor swimming pool			
The swimming pool must be outdoors.	✔	✔	✔
The swimming pool must not have a capacity greater than 26.5 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: electric heat pump.		✔	✔
Outdoor spa			
The spa must not have a capacity greater than 4 kilolitres.	✔	✔	✔
The spa must have a spa cover.		✔	✔

Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
The applicant must install a spa pump timer.		✔	✔
The applicant must install the following heating system for the outdoor spa that is part of this development: electric heat pump.		✔	✔

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			
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 2m2, 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	N/A
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)	N/A
floor above existing dwelling or building.	nil	N/A
external wall: brick veneer	R1.16 (or R1.70 including construction)	
external wall: cavity brick	nil	
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)	
flat ceiling, flat roof: framed	ceiling: R2.08 (up), roof: foil backed blanket (55 mm)	dark (solar absorptance > 0.70)

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.		✔	✔
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.	✔	✔	✔

Glazing requirements

Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check

Windows and glazed doors glazing requirements

Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type
DL01	SE	3.8	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WL01	SE	0.8	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WG01	NE	0.9	2.8	1.5	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WG02	NW	2.5	0	0	awning (fixed) >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WG03	NE	3.2	2.2	2	projection/ height above sill ratio >=0.23	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)

Glazing requirements

Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type
WG04	SE	2.8	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WG05	SW	2.4	0	0	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WG06	NW	2.3	0	0	projection/ height above sill ratio >=0.29	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WG07	NW	3.5	2.4	5	projection/ height above sill ratio >=0.23	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
DG01	NE	2.4	0	0	awning (fixed) >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)

Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check

Windows and glazed doors glazing requirements

Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type
DG02	SE	15.6	0	0	awning (adjustable) >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WG08	SE	6.9	0	0	awning (adjustable) >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
DG03	NW	2.9	0	0	awning (fixed) >=900 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WF01	NW	14.4	0	0	external louvre/ blind (fixed)	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WF02	NE	1.5	0	0	projection/ height above sill ratio >=0.23	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)

Glazing requirements

Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type
WF03	NE	2.6	0	0	projection/ height above sill ratio >=0.23	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
WF04	SE	1.7	0	0	eave/ verandah/ pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
DF01	SE	8.6	0	0	eave/ verandah/ pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)
DF02	SE	10.7	0	0	eave/ verandah/ pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)

Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Skylights			
The applicant must install the skylights in accordance with the specifications listed in the table below.	✔	✔	✔
The following requirements must also be satisfied in relation 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 glazing requirements			

Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type
SK01	1.5	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.9, SHGC: 0.456)
SK02	1.5	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.9, 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.