BASIX® Certificate

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

Alterations and Additions

Certificate number: A369916_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: Thursday, 19, August 2021
To be valid, this certificate must be lodged within 3 months of the date of issue.

NSW GOVERNMENT | Planning, Industry & Environment

Description of project

Project address	
Project name	68E Caledonia Street Paddington_02
Street address	68E Caledonia Street Paddington 2021
Local Government Area	Woollahra Municipal Council
Plan type and number	Deposited Plan DP589453
Lot number	2
Section number	

Project type	
Dwelling type	Attached dwelling house
Type of alteration and addition	My renovation work is valued at $50,000 or more, and does not include a pool (and/or spa).

Certificate Prepared by (please complete before submitting to Council or PCA)
Name / Company Name: Thermal Environmental Engineering
ABN (if applicable): 166914441

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
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 with in-slab heating system.	R1.00 (slab edge)	in-slab heating system
suspended floor with enclosed subfloor: concrete (R0.6).	R0.70 (down) (or R1.30 including construction)	
floor above existing dwelling or building.	nil	
external wall: structural panel system	R1.25 (including construction)	
external wall: concrete block/plasterboard	R1.18 (or R1.70 including construction)	
raked ceiling, pitched/skillion roof: structural panel >125 mm	ceiling: nil (up), roof: foil backed blanket (55 mm)	light (solar absorptance < 0.475)
flat ceiling, flat roof: structural panel >125 mm	ceiling: nil (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 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.	✓	✓	✓
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.	✓	✓	✓

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)		
D02	N	9	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)
WG2	N	2.4	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)
WG1	S	5.1	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)

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)					
D08	S	6.72	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D09	S	6.72	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D15	N	7.68	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D16	N	7.68	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D17	S	1.8	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
WA1	N	2.76	0	0	external louvre/blind (adjustable)	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D23	N	4.14	0	0	external louvre/blind (adjustable)	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D24	W	3.75	0	0	external louvre/blind (adjustable)	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
WB1	N	0.72	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
WB2	N	0.72	0	0	eave/verandah/pergola/balcony >=750 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D05	S	5.4	3	1.35	none	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D18	S	3.3	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D19	S	3	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			

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)		
D20	S	3.3	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)
D21	S	1.8	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)

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.		✓	✓
External awnings and louvres must fully shade the skylight above which they are situated when fully drawn or closed.		✓	✓

Skylights glazing requirements

Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type
L3 New SL	2.88	external fixed louvre	aluminium, moulded plastic single clear, (or U-value: 6.21, SHGC: 0.808)

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.