BASIX[°]Certificate

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

Alterations and Additions

Certificate number: A455621_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 Definitions" dated 10/09/2020 published by the Department. This document is available at www.basix.nsw.gov.au

This certificate is a revision of certificate number A455621 lodged with the consent authority or certifier on 06 July 2022 with application PAN-237319.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary Date of issue: Tuesday, 12 March 2024 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address						
Project name	45 Waterside Cres AT28_02					
Street address	45 WATERSIDE CRESCENT - EARLWOOD 2206					
Local Government Area	Canterbury-Bankstown Council					
Plan type and number	Deposited Plan 339232					
Lot number	С					
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).					
N/A	N/A					
Certificate Prepared by (please	complete before submitting to Council or PCA)					
Name / Company Name: Gradwell Consulting						
ABN (if applicable): 68872791784						

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 1575 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 168 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 33 kilolitres.	~	~	~
The applicant must install a pool pump timer for the swimming pool.		~	~
The applicant must not incorporate any heating system for the swimming pool that is part of this development.		~	~

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 all listed in the table below, except that a) add insulation specified is not required for parts	~	~	~		
Construction	Additional insulation required (R- value)	Other specifications			
concrete slab on ground floor.	nil	N/A			
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				
flat ceiling, flat roof: framed	ceiling: R1.58 (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 standard aluminium or timber frames and single clear or toned glass 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. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.		~	~
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.		~	~
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 requir	ements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and gla	zed doors glazing	g requirements							
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
LG.02	N	12.4	0	0	projection/ height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
LG.04	E	1.7	5.3	2.5	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
G.01	S	1.5	0	0	projection/ height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
G.03	N	12.4	0	0	projection/ height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
G.07	S	7.8	0	0	projection/ height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
1.03	N	12.4	0	0	projection/ height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
1.04	E	1.7	0	0	eave/ verandah/ pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U- value: 5.7, SHGC: 0.47)			
1.07	S	9.5	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
1.08	S	9.5	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
G.04	E	1.3	1.4	2	eave/ verandah/ pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U- value: 5.7, SHGC: 0.47)			

Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a V 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 V 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 V 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.