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BASIX Certificate

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

Alterations and Additions

Certificate number: A462730

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

Secretarv

Date of issue: Thursday, 09, June 2022 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project address	
Project name	Yiwen SUN
Street address	88 Duke Street Campsie 2194
Local Government Area	Canterbury-Bankstown Council
Plan type and number	Deposited Plan 957282
Lot number	В
Section number	
Project type	
Project type Dwelling type	Separate dwelling house

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

Name / Company Name: Gary Teh Architects Pty Ltd

ABN (if applicable): 31617799541

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.		\checkmark	~
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.		\checkmark	~
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.		\checkmark	

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
) in accordance with the specifications listed in truction is less than 2m2, b) insulation specified	~	~	~
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
external wall: brick veneer	R1.16 (or R1.70 including construction)				
internal wall shared with garage: single skin masonry (R0.18)	nil				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.74 (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	I		
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:		\checkmark	\checkmark
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.	\checkmark	\checkmark	~
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.	\checkmark	\checkmark	~
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		\checkmark	\checkmark
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.		\checkmark	~
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.	\checkmark	\checkmark	~
Windows and glazed doors glazing requirements			
Window / door no. Orientation area of glass inc. frame (m2) Overshadowing Shading device Frame and glass type			
W1 NW 0.7 0 0 projection/height above sill ratio >=0.29 standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

Glazing requirements								Show on CC/CDC Plans & specs	Certifier Check	
Window / door	Orientation			Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)						
W2	NW	1.4	0	0	projection/height above sill ratio >=0.29	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)				
W3	SW	1.4	4	4.4	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)				
W4	NW	1.4	0	0	projection/height above sill ratio >=0.29	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)				
W5	NW	1.4	0	0	projection/height above sill ratio >=0.29	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)				
W6	NW	1.4	0	0	projection/height above sill ratio >=0.23	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)				
W7	NW	1.4	0	0	projection/height above sill ratio >=0.29	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)				
W8	SW	1	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)				
W9	NW	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)				
W10	NE	1	0	0	projection/height above sill ratio >=0.29	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)				
W11	SE	1.4	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)				
W12	SE	0.7	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)				
W13	SE	1.4	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)				
W14	SE	1.4	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)				

Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W15	SE	1.4	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W16	SE	0.5	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W17	SE	1	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W18	NW	1.4	0	0	projection/height above sill ratio >=0.29	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W19	NE	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W20	NW	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
W21	NW	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
W22	NW	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
W23	NW	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
W24	SW	1	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W25	SW	0.7	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W26	SW	1.3	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W27	SE	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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)	dowing Distance (m)	Shading device	Frame and glass type			
W28	SE	0.7	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W29	SE	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W30	SE	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W31	SE	0.7	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W32	SE	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W33	NE	1.4	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W34	NW	1.4	0	0	projection/height above sill ratio >=0.29	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W35	NE	1	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W36	SW	4.3	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			

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 "
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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.