



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

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



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	B
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 does not include a pool (and/or spa).

<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)
Name / Company Name: Gary Teh Architects Pty Ltd
ABN (if applicable): 31617799541

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Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
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.		✓	✓
<b>Fixtures</b>			
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.		✓	

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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.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<table><tr><th>Construction</th><th>Additional insulation required (R-value)</th><th>Other specifications</th></tr><tr><td>concrete slab on ground floor.</td><td>nil</td><td></td></tr><tr><td>external wall: brick veneer</td><td>R1.16 (or R1.70 including construction)</td><td></td></tr><tr><td>internal wall shared with garage: single skin masonry (R0.18)</td><td>nil</td><td></td></tr><tr><td>raked ceiling, pitched/skillion roof: framed</td><td>ceiling: R1.74 (up), roof: foil backed blanket (55 mm)</td><td>medium (solar absorptance 0.475 - 0.70)</td></tr></table>	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)			
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Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check			
<b>Windows and glazed doors</b>						
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.						
<b>Windows and glazed doors glazing requirements</b>						
Window / door no.	Orientation	Area of glass inc. frame (m2)	Overshadowing Height (m) Distance (m)	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)

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AMENDMENTS		DATE	BY	<b>(NOTES)</b> All work to be carried out in accordance with BCA, council requirements & relevant Australian standards & codes. Do not scale off the drawings unless otherwise stated and use figured dimensions in preference. All dimensions are to be checked and verified by the CONTRACTOR on the site before the commencement of any work, all dimensions and levels are subject to final survey and set-out. Discrepancies to be reported to designer prior to commencement. No responsibility will be accepted by this firm for any variations in design, builder's method of construction or materials used, deviation from specification without permission or accepted work practices resulting in interior construction. <b>COPYRIGHT CLAUSE</b> This drawing and design is the property of GARY TEH ARCHITECTS and should not be reproduced either in part or whole without the written consent of this firm. The information shown on it is regarded as confidential and must not be disclosed to any third party. This drawing must be returned upon request.	BASIX Certificate (1 of 2)		Proposed Alteration and Addition to an Existing Dwelling FOR Yiwen SUN  At: 88 Duke Street Campsie 2194 Lot : B, DP : 957282 City of Canterbury Bankstown Council			Gary Teh Architects Pty Ltd  8/77 Old Castle Hill Road Castle Hill NSW 2154 NSW Registered Architect No.7818  M 0402 963 373
A	Development Application.	28.4.22	G.T.		DEVELOPMENT APPLICATION					
					Designed By: G. Teh Drawn : G. Teh Date : 3 February 2022 Scale : NTS @ A3					
					Job No.	Dwg	Issue			
				2211	DA 401	A				