# **BASIX**°Certificate

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

## **Alterations and Additions**

Certificate number: A404238

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: Wednesday, 30, June 2021

To be valid, this certificate must be lodged within 3 months of the date of issue.



# Description of project

Project address				
Project name	2002 Tai Heunemann			
Street address	70a Iris Street Beacon Hill 2100			
Local Government Area	Northern Beaches Council			
Plan type and number	Deposited Plan 807341			
Lot number	57			
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).			

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

Name / Company Name: Studio Bijl Pty Ltd

ABN (if applicable): 154 347 869

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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: gas instantaneous.	✓	<b>V</b>	<b>✓</b>
Lighting		1	
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>✓</b>	<b>~</b>
Fixtures		1	
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.		<b>✓</b>	<b>✓</b>
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.		<b>✓</b>	

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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 the table below, except that a) additional insuling is not required for parts of altered construction	ation is not required where the area of new con	s) in accordance with the specifications listed in struction is less than 2m2, b) insulation specified	<b>√</b>	<b>✓</b>	<b>✓</b>
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
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)				
raked ceiling, pitched/skillion roof: framed	ceiling: R3.00 (up), roof: foil/sarking	dark (solar absorptance > 0.70)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	l glazed do	ors							
					nading devices, in accordance with to each window and glazed door.	he specifications listed in the table below.	<b>~</b>	<b>✓</b>	<b>✓</b>
The following re	equirements i	must also	be satisfi	ed in relation	to each window and glazed door:			<b>✓</b>	✓
have a U-value must be calcula	and a Solar ated in accord	Heat Gair dance with	n Coefficie n National	ent (SHGC) r Fenestration	no greater than that listed in the table	ar glazing, or toned/air gap/clear glazing must e below. Total system U-values and SHGCs . The description is provided for information		~	<b>✓</b>
					each eave, pergola, verandah, bald han 2400 mm above the sill.	cony or awning must be no more than 500 mm	<b>✓</b>	✓	✓
For projections least that show			he ratio of	the projection	on from the wall to the height above	the window or glazed door sill must be at	<b>✓</b>	✓	✓
Pergolas with p	olycarbonate	roof or s	imilar tran	slucent mate	erial must have a shading coefficient	of less than 0.35.		✓	✓
					e window or glazed door above whicens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	<b>✓</b>
Pergolas with a must overlap in		ading may	/ have adj	ustable blad	es or removable shade cloth (not les	ss than 80% shading ratio). Adjustable blades		✓	✓
Windows ar	nd glazed o	doors g	lazing r	equireme	nts				
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	Shading device	Frame and glass type			
W1	N	2.71	0	0	pergola (adjustable shade) >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W2	N	6.75	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W3	N	6.81	0	0	projection/height above sill ratio	improved aluminium, single clear, (U-value:			

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Glazing requirements									Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	Shading device	Frame and glass type			
					>=0.43	6.44, SHGC: 0.75)			
W4	N	3.63	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W5	S	1.73	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W6	S	1.46	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W7	S	0.37	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W8	S	2.18	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W9	S	1.25	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W10	S	2.72	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W11	N	4.21	0	0	projection/height above sill ratio >=0.36	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W12	N	8.9	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W13	N	1.95	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W14	N	2.49	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W15	S	1.76	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W16	S	1.76	0	0	none	improved aluminium, single clear, (U-value:			

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Glazing requ	irements						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)	Distance (m)	Shading device	Frame and glass type			
						6.44, SHGC: 0.75)			
W17	S	1.13	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W18	S	0.57	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W19	S	0.85	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W20	S	1.08	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W21	W	3.02	0	0	projection/height above sill ratio >=0.36	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W22	W	8.16	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D1	N	1.71	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D3	N	10.4	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D4	Е	3.63	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D5	N	3.63	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
D6	S	1.66	0	0	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Skylights	<u> </u>		<u> </u>	•	•	·			

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Glazing require	ements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check	
The applicant mus	st install the skyligh	ts in accordance with the spec	cifications listed in the table below.	✓	✓	<b>✓</b>	
The following requ	uirements must also	be satisfied in relation to eac	h skylight:		<b>✓</b>	✓	
Each skylight may the table below.	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 glaz	zing requiremer	nts					
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type				
S1	1.02	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)				
S2	1.02	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)				

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### 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.