BASIX Certificate

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

Alterations and Additions

Certificate number: A404869 05

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

This certificate is a revision of certificate number A404869_03 lodged with the consent authority or certifier on 27 Sep 2022 with application DA2022/1527.

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 Sch 1 Cl 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000

Secretary

Date of issue: Wednesday, 13, September 2023

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



Description of project

Project address	
Project name	1708b House Alterations_05
Street address	18-20 Sturdee Lane Lovett Bay 2105
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 1132852
Lot number	1
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: James de Soyres and Associates Pty Ltd

ABN (if applicable): 50084840648

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: electric heat pump system that is eligible to create Renewable Energy Certificates under the (Commonwealth) Renewable Energy (Electricity) Regulations 2001 (incorporating Amendment Regulations 2005 (No. 2)).	✓	~	~
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	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.		V	✓
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					
	d construction (floor(s), walls, and ceilings/roofs) ation is not required where the area of new construments where insulation already exists.		V	V	V
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with open subfloor: framed (R0.7).	R0.8 (down) (or R1.50 including construction)				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R1.45 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			
raked ceiling, pitched/skillion roof: framed	ceiling: R1.74 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			
flat ceiling, flat roof: framed	ceiling: R1.58 (up), roof: foil backed blanket (75 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.		✓	✓
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.		✓	✓
Pergolas with adjustable shading may have adjustable blades or removable shade cloth (not less than 80% shading ratio). Adjustable blades must overlap in plan view.		~	✓
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			

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Glazing requ	iirements						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			
1J-01	E	3.9	13.3	6.6	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
1J-02	N	10.3	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, toned/air gap/clear, (U-value: 4.09, SHGC: 0.47)			
1J-03	N	16.2	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, toned/air gap/clear, (U-value: 4.09, SHGC: 0.47)			
1J-04	W	7.3	16.4	5.8	none	improved aluminium, toned/air gap/clear, (U-value: 4.09, SHGC: 0.47)			
1J-05	W	7.3	0	0	pergola (adjustable shade) >=900 mm	improved aluminium, toned/air gap/clear, (U-value: 4.09, SHGC: 0.47)			
2J-01	S	0.7	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-02	S	2	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-03	E	0.9	11.3	3.7	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-04	E	1.1	8.6	5.1	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-05	E	3.1	10.4	5.9	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-06	N	8.0	1.7	0.8	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-07	SE	1.3	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-08	NE	2.9	7.4	1.2	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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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			
2J-09	NW	1.3	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
2J-10	E	0.7	1.8	1.3	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-11	N	5.6	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
2J-12	W	0.7	1.8	1.3	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-13	NE	2.7	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
2J-14	NW	2.9	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
2J-15	SW	1.3	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-16	N	0.5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-17	W	2.7	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-18	S	0.5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
2J-19	S	1.8	7	3.6	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
3J-01	N	0.8	4.4	5.5	projection/height above sill ratio >=0.23	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
3J-02	Е	2.7	7.6	5.3	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

Glazing requ	uirements							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)						
3J-03	N	5.2	0	0	eave/verandah/pergola/ >=750 mm	/balcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
3J-04	W	1.7	0	0	eave/verandah/pergola/ >=750 mm	/balcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
3J-05	S	0.7	0	0	none		standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
3J-06	S	0.8	0	0	none		standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
1J-06	W	1.1	0	0	eave/verandah/pergola/ >=900 mm	/balcony	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
1J-07	S	0.2	8.7	3.7	none		standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
Skylights										
The applicant	must install th	e skylight:	s in acco	dance with t	he specifications listed in	the table b	pelow.	✓	✓	✓
The following r	equirements i	must also	be satisf	ed in relation	to each skylight:				✓	✓
Each skylight r the table below		tch the de	escription	, or, have a l	J-value and a Solar Heat	Gain Coef	ficient (SHGC) no greater than that listed in		✓	✓
Skylights g	lazing requ	uiremen	ts							
Skylight numb	er Area of of inc. fram		Shading	device	F	rame and	glass type			
S-01	1.8		no shad	ing			-E internal/argon fill/clear external, (or 5, SHGC: 0.456)			
S-02	0.4		no shad	ing	ti	imber, low	-E internal/argon fill/clear external, (or			

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Glazing require	ements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
			U-value: 2.5, SHGC: 0.456)			
S-03	0.4	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S-04	0.4	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S-05	0.4	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			

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.