BASIX Certificate

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

Alterations and Additions

Certificate number: A420019

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, 07, July 2021

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



Description of project

Project address					
Project name	Langley Home				
Street address	8 Hubert Street Freshwater 2096				
Local Government Area	Northern Beaches Council				
Plan type and number	Deposited Plan 18993				
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 does not include a pool (and/or spa).				

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

Name / Company Name: Site Specific Designs

ABN (if applicable): 28464402548

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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.	✓	✓	✓
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.		>	

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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 alterer the table below, except that a) additional insular is not required for parts of altered construction	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)				
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
external wall: brick veneer	R1.16 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R2.24 (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 0.70)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
					ading devices, in accordance with each window and glazed door.	the specifications listed in the table below.	~	~	~
The following re		✓	✓						
Each window o have a U-value must be calcula		✓	~						
have a U-value must be calcula	and a Solar ted in accord	Heat Gair dance with	n Coefficie n National	ent (SHGC) n Fenestration	o greater than that listed in the tabl	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		✓	✓
					each eave, pergola, verandah, bal han 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with p	olycarbonate	roof or si	milar tran	slucent mate	rial must have a shading coefficien	t of less than 0.35.		✓	✓
					window or glazed door above which must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Overshadowing specified in the	buildings or 'overshadow	vegetatio ving' colun	n must be nn in the t	e of the heigh able below.	t and distance from the centre and	the base of the window and glazed door, as	✓	✓	~
Windows an	d glazed	doors g	lazing r	equiremen	nts				
Window / door	Orientation			dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W1	E	2.88	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W2	Е	5.25	4.2	11.4	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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Glazing requirements									Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W3	E	2.64	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W4	W	0.54	3.6	4.2	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	W	0.81	3.6	4.2	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	N	1.8	5.1	4.1	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
W7	N	0.53	4.95	4.1	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
W8	N	0.53	4.95	4.1	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W9	N	2.88	5.1	4.1	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	W	8.82	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	N	6.62	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	E	2.64	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W13	N	1.68	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W14	E	0.9	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W15	N	2.1	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

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Glazing requirements									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			
W16	W	2.1	0	0	eave/verandah/pergola/bald >=600 mm		mproved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W17	W	2.1	0	0	eave/verandah/pergola/bald >=900 mm		standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W18	SW	0.12	0	0	eave/verandah/pergola/bald >=450 mm		standard aluminium, single toned, (or J-value: 7.57, SHGC: 0.57)			
Skylights						<u> </u>		<u>-</u>		
The applicant n	nust install th	e skylight	s in acco	rdance with tl	ne specifications listed in the t	table be	ow.	✓	✓	✓
The following re	equirements i	must also	be satisf	ied in relation	to each skylight:				✓	✓
Each skylight method the table below		tch the de	escription	, or, have a U	J-value and a Solar Heat Gair	n Coeffic	ient (SHGC) no greater than that listed in		✓	✓
External awning	gs and louvre	s must fu	lly shade	the skylight a	above which they are situated	d when fu	ılly drawn or closed.		✓	~
Skylights gl	azing requ	uiremen	ts							
Skylight number	kylight number Area of glazing Shading device Frame and glass type inc. frame (m2)									
S1	0.97	.97 external adjustable awning or blind timber, double clear/air fill, (or U-value: 4.3, SHGC: 0.5)								
S2	0.97		externa	l adjustable a	wning or blind timbe	er, doubl	e clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S3	0.97		externa	l adjustable a	<u> </u>		e clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S4	0.84		no shad			•	e clear/air fill, (or U-value: 4.3, SHGC: 0.5)			
S5	1.13		externa	l adjustable a	wning or blind timbe	er, doubl	e clear/air fill, (or U-value: 4.3, SHGC: 0.5)			

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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.