BASIX Certificate

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

Alterations and Additions

Certificate number: A323325 04

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: Monday, 10, June 2019

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



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Project address						
Project name	1812 Elanora Heights Additions_04					
Street address	141 Powderworks Road Elanora Heights 2101					
Local Government Area	Northern Beaches Council					
Plan type and number	Deposited Plan 842992					
Lot number	101					
Section number						
Project type						
Dwelling type	Attached 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: 4Plan

ABN (if applicable): 64159346504

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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.		✓	✓
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 alter the table below, except that a) additional insuis not required for parts of altered construction	V	V	<		
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)				
flat ceiling, flat roof: framed	ceiling: R2.32 (up), roof: foil/sarking	light (solar absorptance < 0.475)			

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Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
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 re	equirements r	must also	be satisfic	ed in relation	to each window and glazed door:			✓	✓
have a U-value	and a Solar	Heat Gair	n Coefficie	ent (SHGC) n		d glass may either match the description, or, le below. Total system U-values and SHGCs s.		✓	✓
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.							✓	✓	✓
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.								✓	✓
Windows and glazed doors glazing requirements									
Window / door	Orientation		Oversha		Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W15	Е	2.8	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
D14	Е	0.5	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
D16	N	6.6	0	0	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			

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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)	Distance (m)	Shading device		Frame and glass type			
D17	Е	7.3	0	0	eave/verandah/pergola >=900 mm	a/balcony	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W21	S	1	0	0	none		standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W11	E	2.9	0	0	eave/verandah/pergola >=450 mm	a/balcony	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
Skylights										
The applicant m	nust install th	e skylight	s in accor	dance with th	ne specifications listed in	n the table b	elow.	✓	✓	<
The following requirements must also be satisfied in relation to each skylight:								✓	✓	
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 gl	Skylights glazing requirements									
Skylight number Area of glazing inc. frame (m2) Skylight number Area of glazing inc. frame (m2) Frame and glass type										
WS01	0.77		no shading aluminium, moulded plastic single clear, (or U-value: 6.21, SHGC: 0.808)							

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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.