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BASIX Certificate

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

Alterations and Additions

Certificate number: A406255

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

Secretarv

Date of issue: Thursday, 11, February 2021 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project address	
Project name	1 Maitland Street
Street address	1 Maitland Street Street Davidson 2085
Local Government Area	Warringah Council
Plan type and number	Deposited Plan 240153
Lot number	4
Section number	
Section number Project type	
	Separate dwelling house

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

Name / Company Name: Charlotte Fayle Architecture

ABN (if applicable): 95612409262

Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank			
The applicant must install a rainwater tank of at least 1262 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	~	~
The applicant must configure the rainwater tank to collect rainwater runoff from at least 200 square metres of roof area.		\checkmark	\checkmark
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool and outdoor spa.		\checkmark	\checkmark
Outdoor swimming pool		l	
The swimming pool must be outdoors.	\checkmark	 	\checkmark
The swimming pool must not have a capacity greater than 33 kilolitres.	\checkmark	\checkmark	\checkmark
The swimming pool must have a pool cover.		\checkmark	\checkmark
The applicant must install a pool pump timer for the swimming pool.		\checkmark	\checkmark
The applicant must install the following heating system for the swimming pool that is part of this development: electric heat pump.		\checkmark	\checkmark
Outdoor spa		1	1
The spa must not have a capacity greater than 2 kilolitres.	\checkmark	\checkmark	\checkmark
The spa must have a spa cover.		\checkmark	\checkmark
The applicant must install a spa pump timer.		\checkmark	\checkmark
The applicant must install the following heating system for the outdoor spa that is part of this development: electric heat pump.		\checkmark	\checkmark

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.	\checkmark	\checkmark	\checkmark
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.		\checkmark	\checkmark
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.		\checkmark	\checkmark
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.		\checkmark	

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 insulat is not required for parts of altered construction v	~	~	~		
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)				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
external wall: structural panel system	R1.25 (including construction)				
internal wall shared with garage: plasterboard (R0.36)	nil				
flat ceiling, flat roof: structural panel >125 mm	ceiling: nil (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			

Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	l glazed do	ors							
					hading devices, in accordance with r each window and glazed door.	the specifications listed in the table below.	~	~	~
The following re	equirements i	must also	be satisfi	ed in relatio	n to each window and glazed door:			~	\checkmark
have a U-value must be calcula	and a Solar ated in accord	Heat Gair dance with	n Coefficie National	ent (SHGC) Fenestratio	no greater than that listed in the tabl	ar glazing, or toned/air gap/clear glazing must e below. Total system U-values and SHGCs . The description is provided for information		~	~
					f each eave, pergola, verandah, balo than 2400 mm above the sill.	cony or awning must be no more than 500 mm	\checkmark	\checkmark	\checkmark
Pergolas with p	olycarbonate	roof or si	milar tran	slucent mat	erial must have a shading coefficien	t of less than 0.35.		 	\checkmark
					e window or glazed door above whic ens must not be more than 50 mm.	ch they are situated, unless the pergola also		\checkmark	\checkmark
Overshadowing specified in the					ht and distance from the centre and	the base of the window and glazed door, as	\checkmark	\checkmark	\checkmark
Windows an	d glazed o	doors g	lazing r	equireme	nts				
Window / door no.			Oversha Height (m)	<u> </u>	Shading device	Frame and glass type			
WG-01	SE	7.8	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-02	SE	1.4	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-03	NE	6.3	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-04	SE	2.5	0	0	eave/verandah/pergola/balcony	aluminium, single Lo-Tsol low-e, (U-value:			

Glazing requirements									Certifier Check
Window / door	Orientation	Area of	Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=900 mm	5.6, SHGC: 0.36)			
WG-05	NE	6.4	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-06	NE	6.4	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-07	NE	6.4	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-08	NE	6.4	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-09	NE	6.4	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-10	NE	6.4	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-11	SE	2.5	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-12	SE	2.5	0	0	eave/verandah/pergola/balcony >=900 mm	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-13	SW	2.5	9	2.1	none	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-14	SW	1.85	9	2.1	none	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-15	SW	1.85	9	2.1	none	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-16	NW	1.6	9	2.1	none	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WG-17	SW	2.3	9	2.9	none	aluminium, single Lo-Tsol low-e, (U-value:			

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)	dowing Distance (m)	Shading device		Frame and glass type			
							5.6, SHGC: 0.36)			
WF-01	SE	6.9	0	0	eave/verandah/pergo >=900 mm	ola/balcony	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WF-02	SE	8.6	0	0	eave/verandah/pergo >=600 mm	ola/balcony	aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WF-03	SE	1.7	0	0	none		aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
WF-04	SW	2.2	8	2.9	none		aluminium, single Lo-Tsol low-e, (U-value: 5.6, SHGC: 0.36)			
Skylights										
The applicant m	nust install the	e skylight	s in accor	dance with th	ne specifications listed i	in the table b	elow.	\checkmark	\checkmark	~
The following re	equirements r	nust also	be satisfi	ed in relation	to each skylight:				\checkmark	\checkmark
Each skylight m the table below.		tch the de	escription,	or, have a U	I-value and a Solar Hea	at Gain Coef	ficient (SHGC) no greater than that listed in		\checkmark	~
External awning	gs and louvre	s must fu	lly shade	the skylight a	above which they are si	ituated when	fully drawn or closed.		\checkmark	~
Skylights glazing requirements										
Skylight number Area of glazing Shading device Frame and glass type inc. frame (m2) Inc. frame (m2) Inc. frame (m2)										
S1	1.7		external	adjustable a	wning or blind	aluminium, 6.21, SHG	moulded plastic single clear, (or U-value: C: 0.808)			

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.