BASIX Certificate

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

Alterations and Additions

Certificate number: A336664

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: Wednesday, 30, January 2019 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project name	Devries Residence		
Street address	6 Kenna Place Cromer 2099		
Local Government Area	Northern Beaches Council		
Plan type and number	Deposited Plan 237862		
Lot number	17		
Section number	0		
Project type			
Dwelling type	Separate dwelling house		
Type of alteration and addition	My renovation work is valued at \$50,000 or mo and does not include a pool (and/or spa).		

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

Name / Company Name: Sean Gilmour Architect

ABN (if applicable): 40 824 597 954

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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.	\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			
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
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					
	d construction (floor(s), walls, and ceilings/roofs) tion is not required where the area of new constr where insulation already exists.		\checkmark	\checkmark	~
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
suspended floor with open subfloor: framed (R0.7).	R0.8 (down) (or R1.50 including construction)				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
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external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, flat roof: framed	ceiling: R2.08 (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 0.70)			

Glazing r	equirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows	and glazed o	doors							
					hading devices, in accordance with r each window and glazed door.	the specifications listed in the table below.	~	 	\checkmark
The followi	ng requirement	s must also	o be satisfi	ed in relatior	n to each window and glazed door:			\checkmark	\checkmark
have a U-va must be ca	alue and a Sola	ar Heat Gai ordance wit	n Coefficie h National	ent (SHGC) i Fenestratio	no greater than that listed in the tab	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		~	~
					f each eave, pergola, verandah, bal than 2400 mm above the sill.	cony or awning must be no more than 500 mm	~	~	\checkmark
Pergolas w	ith polycarbona	ate roof or s	similar tran	slucent mate	erial must have a shading coefficien	t of less than 0.35.		\checkmark	\checkmark
External louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed.						situated when fully drawn or closed.		\checkmark	\checkmark
Pergolas w shades a p	rith fixed batten erpendicular w	s must hav indow. The	e battens spacing b	parallel to the	e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		 	~
Windows	s and glazed	doors g	lazing r	equireme	nts		-		
Window / c no.	door Orientatio	on Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
W1	NE	3.24	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W2	SE	1.62	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W3	SE	1.44	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W4	SW	1.08	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

Glazing requ	irements						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)					
W5	SW	0.9	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W6	SE	2.03	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W7	NW	2.34	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W8	NE	3.54	0	0	external louvre/blind (fixed)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W9	NW	3.03	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W10	NW	1.01	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W11	NE	3.03	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W12	NE	3.23	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W13	SE	1.44	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D1	NW	0.27	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D2	NW	7.6	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D3	NE	11.53	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D4	SW	3.62	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			

Glazing req	uirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / doc	or Orientation		Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
D5	SW	4.56	0	0	eave/verandah/pergola/balcon	y standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D6	SW	8.3	0	0	eave/verandah/pergola/balcon >=900 mm	y standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D7	NW	11.62	0	0	eave/verandah/pergola/balcon	y standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
HL1	NW	0.67	0	0	eave/verandah/pergola/balcon	y standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
Skylights									
The applicant	must install th	ne skylight	s in accor	dance with t	he specifications listed in the tabl	le below.	~	~	\checkmark
The following	requirements	must also	be satisfi	ed in relation	n to each skylight:			\checkmark	\checkmark
Each skylight the table belo		atch the de	escription	, or, have a l	J-value and a Solar Heat Gain Co	oefficient (SHGC) no greater than that listed in		~	~
Skylights g	lazing requ	uiremen	ts						
Skylight num	per Area of inc. fram		Shading) device	Frame a	ind glass type			
S1	0.85		no shad	ing		ow-E internal/argon fill/clear external, (or : 2.5, SHGC: 0.456)			
S2	0.49		no shad	ing		ow-E internal/argon fill/clear external, (or : 2.5, SHGC: 0.456)			
S3	0.49		no shad	ing		ow-E internal/argon fill/clear external, (or : 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.