BASIX Certificate

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

Alterations and Additions

Certificate number: A409640

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: Friday, 23, 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	1566_DuPlessis_Clifford_03							
Street address	7 Clifford Avenue Fairlight 2094							
Local Government Area	Northern Beaches Council							
Plan type and number	Deposited Plan 315261							
Lot number	В							
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 includes a pool (and/or spa).							

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

Name / Company Name: Du plessis + Du plessis architects

ABN (if applicable): 44 479 097 737

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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 1553 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 90 square metres of roof area.		✓	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool.		✓	✓
Outdoor swimming pool			
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 60 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must install the following heating system for the swimming pool that is part of this development: solar only.		✓	✓

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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		ı	
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 altered the table below, except that a) additional insular is not required for parts of altered construction	√	√	√				
Construction	struction Additional insulation required (R-value) Other specifications						
concrete slab on ground floor with in-slab heating system.	R1.00 (slab edge)	in-slab heating system					
floor above existing dwelling or building.	nil						
external wall: brick veneer	R1.16 (or R1.70 including construction)						
external wall: cavity brick	nil						
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)						
internal wall shared with garage: cavity brick wall (R0.67)	nil						
raked ceiling, pitched/skillion roof: framed	ceiling: R1.24 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)					
flat ceiling, flat roof: framed	ceiling: R1.08 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)					

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Glazing requi	Slazing requirements								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 requirements must also be satisfied in relation to each window and glazed door:								✓	✓
Each window or have a U-value must be calcula		✓	✓						
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 pe	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 some which will be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Overshadowing specified in the					t and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows an	d glazed d	doors g	lazing r	equiremer	nts				
Window / door no.		Area of glass inc.			Shading device	Frame and glass type			
		frame (m2)							
W1	S	8.4	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W2	S	5.2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

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Glazing requ	uirements	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			
W3	W	1.2	3.6	1.9	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W4	W	0.4	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	Е	1.7	4.6	2.9	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	Е	1.7	4.6	2.9	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W7	Е	1.4	4.6	2.9	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W8	S	7.8	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W9	Е	6.3	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	S	1.7	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	W	1.2	2.7	1.9	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	W	1.2	2.7	1.9	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	W	0.6	4.2	3.2	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W14	W	0.6	4.2	3.2	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W15	W	3	3.5	3.2	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	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W16	S	(m2) 0.4	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W19	W	0.7	1.5	0.9	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W20	W	4.6	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W21	E	0.7	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W22	N	1.1	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W23	W	1.7	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W24	W	1.7	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W25	W	2.5	1.3	2.8	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W26	S	2.9	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W27	S	1.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W28	S	6.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W29	W	1	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W30	W	1	0	0	eave/verandah/pergola/balcony >=750 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 / doo	Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
W31	S	0.6	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W32	N	0.6	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W33	N	6.6	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W34	N	6.6	0	0	eave/verandah/pergola/balcony >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W35	E	5.8	2	5	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W36	Е	8.0	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W37	N	0.5	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W38	S	0.5	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
Skylights									
The applicant must install the skylights in accordance with the specifications listed in the table below.						✓	✓	✓	
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 g	lazing requ	uiremen	its						

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Glazing require	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			
S1	0.9	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S2	0.9	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
S3	0.7	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 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.