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BASIX Certificate

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

Alterations and Additions

Certificate number: A428186

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: Monday, 20, December 2021 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

	Project address	
I	Project name	759B - 61B Wandeen Rd Clareville
	Street address	61B Wandeen Road Clareville 2107
l	Local Government Area	Northern Beaches Council
ł	Plan type and number	Deposited Plan 236667
l	Lot number	19
ç	Section number	
I	Project type	
[Dwelling type	Separate dwelling house
	Type of alteration and	My renovation work is valued at \$50,000 or more

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

Name / Company Name: ECOMODE Design

ABN (if applicable): 79845824261

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 1148 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 170 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.		\checkmark	\checkmark
Outdoor swimming pool		1	
The swimming pool must be outdoors.	\checkmark	\checkmark	\checkmark
The swimming pool must not have a capacity greater than 65 kilolitres.	\checkmark	\checkmark	\checkmark
The swimming pool must have a pool cover.		\checkmark	\checkmark
The swimming pool must be shaded.	\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: solar (electric boosted).		\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: solar (electric-boosted) system that is eligible to create Renewable Energy Certificates under the (Commonwealth) Renewable Energy (Electricity) Regulations 2001 (incorporating Amendment Regulations 2005 (No. 2)).	~	~	~
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	\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
nsulation requirements			l		l
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				
suspended floor with open subfloor: concrete (R0.6).	R0.9 (down) (or R1.50 including construction)				
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)				
internal wall shared with garage: plasterboard (R0.36)	nil				
raked ceiling, pitched/skillion roof: framed	ceiling: R3.00 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			
flat ceiling, flat roof: concrete/plasterboard internal	ceiling: R3.00 (up), roof: foil/sarking	dark (solar absorptance > 0.70)			

Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	l glazed do	ors							
The applicant n Relevant overs	~	~	~						
The following re	equirements r	must also	be satisfi	ed in relatior	to each window and glazed door:			\checkmark	\checkmark
have a U-value must be calcula	and a Solar lated in accord	Heat Gair dance with	n Coefficie n National	ent (SHGC) r Fenestration	o greater than that listed in the tab	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs . 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 s	imilar tran	slucent mate	erial must have a shading coefficien	t of less than 0.35.		\checkmark	\checkmark
External louvre	s and blinds r	must fully	shade the	e window or	glazed door beside which they are	situated when fully drawn or closed.		\checkmark	\checkmark
					e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		\checkmark	~
Overshadowing specified in the					nt and distance from the centre and	the base of the window and glazed door, as	~	\checkmark	~
Windows ar	nd glazed o	doors g	lazing r	equireme	nts		-		
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	Shading device	Frame and glass type			
WL01	SW	1.3	10	2	eave/verandah/pergola/balcony >=450 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WL02	SW	9.8	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WG09-WG10	SW	29.1	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			

Glazing requirements									Certifier Check
Window / door	Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
DL01	SW	2.5	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WG01	NE	3.4	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
DG01	NE	2	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WG02	NE	2.8	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WG03-WG04	SW	6	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WG05-WG06	SW	4.6	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WG07	SW	0.6	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
DG03-WG08	SE	2.3	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WG11	SW	0.5	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WG14	SW	4.5	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
WG12-WG13	NE	5.6	1.8	1.2	none	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
DL03	SE	2.4	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
DL02	SW	2.5	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			

Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door	Orientation	Area of	Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
WL03	SW	2.8	0	0	eave/verandah/pergola/balco >=900 mm	ny improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Skylights							_		
The applicant n	nust install th	e skylights	s in accord	dance with th	e specifications listed in the tal	ble below.	\checkmark	\checkmark	\checkmark
The following requirements must also be satisfied in relation to each skylight:								\checkmark	\checkmark
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.								\checkmark	~
Skylights gl	azing requ	uirement	ts						
Skylight numbe	er Area of g inc. fram		Shading	device	Frame	and glass type			
SK01	1		no shadi	ng	timber,	double clear/air fill, (or U-value: 4.3, SHGC: 0.5)			

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 "
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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.