BASIX Certificate

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

Alterations and Additions

Certificate number: A329719 02

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

This certificate is a revision of certificate number A329719 lodged with the consent authority or certifier on 01 Oct 2018 with application DA2018/1616.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Sch 1 Cl 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000

Secretary

Date of issue: Monday, 30, September 2019

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



Description of project

Project address	
Project name	Riverview 3_02
Street address	3 Riverview Road Avalon 2107
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 3632
Lot number	6
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: Delisle Hunt Wood Pty Ltd

ABN (if applicable): 631934837

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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 1142 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 150 square metres of roof area.		✓	✓
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the outdoor spa.		✓	✓
Outdoor spa			
The spa must not have a capacity greater than 3 kilolitres.	✓	✓	✓
The spa must have a spa cover.		✓	✓
The applicant must install a spa pump timer.		✓	✓
The applicant must install the following heating system for the outdoor spa that is part of this development: electric heat pump.		✓	✓

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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		1	
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.		✓	✓
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					
	ed construction (floor(s), walls, and ceilings/roofs) ation is not required where the area of new construction where insulation already exists.		√	√	V
Construction	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: other/undecided	R1.70 (including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.74 (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 0.70)			

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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 n Relevant overs	nust install th	~	<	~					
The following re	equirements i	must also	be satisfi	ed in relatior	n to each window and glazed door:			✓	✓
have a U-value	and a Solar	Heat Gair	n Coefficie	ent (SHGC) r		d glass may either match the description, or, le below. Total system U-values and SHGCs		✓	✓
have a U-value	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		~	✓					
For projections least that show			he ratio of	the projection	on from the wall to the height above	the window or glazed door sill must be at	✓	✓	✓
External louvre	s and blinds i	must fully	shade the	e window or	glazed door beside which they are s	situated when fully drawn or closed.		✓	✓
Overshadowing specified in the	buildings or overshadow	vegetatio	on must be	e of the heigh able below.	nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows ar	d glazed o	doors g	lazing r	equireme	nts				
Window / door	Orientation		Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
DG.05	S	3	14	6	none	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W1.01	N	15.6	7.2	10.75	external louvre/blind (adjustable)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W1.02	W	24.4	0	0	external louvre/blind (adjustable)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			

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Glazing req	Slazing requirements								Certifier Check
Window / doo no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
D2.03	W	6	0	0	projection/height above sill ratio >=0.36	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
D2.04	W	6	0	0	projection/height above sill ratio >=0.36	standard aluminium, single toned, (or U-value: 7.57, SHGC: 0.57)			
D2.05	W	6	0	0	projection/height above sill ratio >=0.36	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
D2.06	W	6	4.2	2.8	projection/height above sill ratio >=0.36	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W2.01	W	8.6	0	0	projection/height above sill ratio >=0.43	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W2.02	W	3.7	0	0	external louvre/blind (adjustable)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W3.01	Е	4.3	0	0	projection/height above sill ratio >=0.43	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W3.02	Е	8.1	0	0	projection/height above sill ratio >=0.43	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W3.03	W	3.8	0	0	external louvre/blind (adjustable)	improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W3.04	W	5.1	0	0	projection/height above sill ratio >=0.29	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W3.05	N	13	0	0	projection/height above sill ratio >=0.36	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.06	N	8.9	0	0	projection/height above sill ratio >=0.36	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.07	N	8.9	0	0	projection/height above sill ratio >=0.36	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			

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Glazing requirements								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			
W3.08	N	8.9	0	0	projection/height above sill ratio >=0.36	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.09	W	10.1	0	0	projection/height above sill ratio >=0.43	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.10	W	2	0	0	projection/height above sill ratio >=0.43	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.11	W	4.3	0	0	projection/height above sill ratio >=0.43	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.12	W	8.5	0	0	projection/height above sill ratio >=0.43	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.13	W	4.1	0	0	projection/height above sill ratio >=0.43	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.14	W	4.2	0	0	projection/height above sill ratio >=0.43	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.15	N	8.6	2.9	9.6	projection/height above sill ratio >=0.23	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.15 High	W	1.6	0	0	projection/height above sill ratio >=0.36	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W3.16	N	8	0	0	projection/height above sill ratio >=0.43	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W4.03	E	1.2	20.2	35.5	projection/height above sill ratio >=0.23	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W4.04	E	1.2	20.2	35.5	projection/height above sill ratio >=0.23	improved aluminium, single toned, (U-value: 6.39, SHGC: 0.56)			
W4.05	E	1.2	0	0	projection/height above sill ratio >=0.23	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			

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Glazing requ								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			
W4.06	E	1.2	0	0	projection/height above >=0.23	sill ratio	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W4.07	Е	1.2	0	0	projection/height above >=0.23	e sill ratio	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W4.08	Е	1.2	0	0	projection/height above >=0.23	sill ratio	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W3.17	S	5.4	0	0	none		improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
W3.18	S	0.6	0	0	none		improved aluminium, single clear, (U-value: 6.44, SHGC: 0.75)			
Glazed roofs										
The applicant m	nust install th	e glazed	roofs des	cribed in the t	able below, in accordance	ce with the s	specifications listed in the table.	✓	✓	✓
The following re	The following requirements must also be satisfied in relation to each glazed roof:					✓	✓			
Glazed roofs glazing requirements										
Glazed roof number	Area of (m2)	glazing	Shading	g device		Glass type				
G1	23.5		no shad	ling		mproved ali 4.48, SHGC	uminium, single pyrolytic low-e, (U-value: : 0.46)			

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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.