BASIX Certificate

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

Alterations and Additions

Certificate number: A332030

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: Tuesday, 02, April 2019

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



Project address Project name Spencer 25 Ballyshannon Road Killarney Heights 2087 Street address Northern Beaches Council Local Government Area Deposited Plan 758566 Plan type and number 2 Lot number Section number 81 Project type Separate dwelling house Dwelling type Type of alteration and My renovation work is valued at \$50,000 or more, addition and includes a pool (and/or spa).

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

Name / Company Name: Matt Elkan Architect

ABN (if applicable): 33960748933

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BASIX Certificate number: A332030 page 2 / 8

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 2537 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 100 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 6.18 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.		✓	✓

BASIX Certificate number: A332030 page 3 / 8

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
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.		✓	~
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.		✓	

BASIX Certificate number: A332030 page 4 / 8

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Insulation requirements					
	d construction (floor(s), walls, and ceilings/roofs) ation is not required where the area of new construments where insulation already exists.		V	√	~
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)				
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
floor above existing dwelling or building.	nil				
external wall: cavity brick	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R2.24 (up), roof: foil backed blanket (55 mm)	medium (solar absorptance 0.475 - 0.70)			

BASIX Certificate number: A332030 page 5 / 8

Glazing re	quirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows a	nd glazed do	oors						30003	
The applicar Relevant ove	nt must install the ershadowing sp	ne window ecification	s, glazed s must be	doors and sless satisfied for	nading devices, in accordance with a reach window and glazed door.	the specifications listed in the table below.	✓	✓	✓
The following	g requirements	must also	be satisfi	ed in relatior	n to each window and glazed door:			✓	~
have a U-val	ue 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-val must be calc	ue and a Solar ulated in accor	Heat Gair dance with	n Coefficie n National	ent (SHGC) r Fenestration	no greater than that listed in the tabl	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs . The description is provided for information		~	✓
					f each eave, pergola, verandah, bald than 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	✓
Pergolas wit	h polycarbonate	e roof or s	imilar tran	slucent mate	erial must have a shading coefficien	t of less than 0.35.		✓	~
External louv	res and blinds	must fully	shade the	e window or	glazed door beside which they are s	situated when fully drawn or closed.		✓	✓
					e window or glazed door above which ens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	✓
Windows	and glazed	doors g	lazing r	equireme	nts				
Window / do	oor Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
W1	N	3.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W2	S	3.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W3	E	3.6	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or			

Page 6 / 8

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			
						U-value: 7.63, SHGC: 0.75)			
W4	N	3.12	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	E	1.5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	N	3	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W7	N	3	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W8	S	5	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W9	S	5.5	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	S	4	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	W	3.6	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	N	6.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	N	0.3	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D1	S	13.3	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D2	S	6.15	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D3	S	4.6	0	0	eave/verandah/pergola/balcony	standard aluminium, single clear, (or			

BASIX Certificate number: A332030 page 7 / 8

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			
					>=900 mm	U-value: 7.63, SHGC: 0.75)			
D4	S	3.8	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D5	S	11.8	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D6	N	2.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W14	W	2.15	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W15	N	0.37	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W3a	N	0.37	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W3b	S	0.37	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W9a	E	0.58	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

BASIX Certificate number: A332030 page 8 / 8

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.