# **BASIX** Certificate

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

# **Alterations and Additions**

Certificate number: A354081

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: Wednesday, 21, August 2019

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



## **Project address** Project name 40 TOWRADGI Street address 40 TOWRADGI Street NARRAWEENA 2099 Warringah Council Local Government Area Deposited Plan 226445 Plan type and number 76 Lot number Section number Project type Separate dwelling house Dwelling type Type of alteration and My renovation work is valued at \$50,000 or more, and includes a pool (and/or spa). addition

Certificate Prepared by (please c	omplete before submitting to Council or PCA)
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Name / Company Name: Leigh Sym

ABN (if applicable): N/A

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BASIX Certificate number: A354081 page 2 / 7

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 1251 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	<b>~</b>	<b>~</b>	<b>✓</b>
The applicant must configure the rainwater tank to collect rainwater runoff from at least 157 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.		<b>✓</b>	✓
Outdoor swimming pool			
The swimming pool must be outdoors.	<b>✓</b>	<b>~</b>	^
The swimming pool must not have a capacity greater than 37 kilolitres.	✓	✓	<b>✓</b>
The applicant must install a pool pump timer for the swimming pool.		<b>✓</b>	<b>✓</b>
The applicant must not incorporate any heating system for the swimming pool that is part of this development.		<b>✓</b>	✓

BASIX Certificate number: A354081 page 3 / 7

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.		<b>✓</b>	~
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.		<b>✓</b>	✓
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.		<b>✓</b>	✓
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.		<b>✓</b>	

BASIX Certificate number: A354081 page 4 / 7

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.		<b>√</b>	<b>√</b>	<b>✓</b>
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, flat roof: framed	ceiling: R1.08 (up), roof: foil backed blanket (75 mm)	dark (solar absorptance > 0.70)			

BASIX Certificate number: A354081 page 5 / 7

Glazing requ	irements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows and	glazed do	ors							
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.							<b>~</b>	<b>~</b>	<b>✓</b>
The following re	equirements i	must also	be satisfi	ed in relation	to each window and glazed door:			<b>✓</b>	✓
have a U-value	and a Solar	Heat Gair	Coefficie	ent (SHGC) n		d glass may either match the description, or, le below. Total system U-values and SHGCs s.		<b>✓</b>	<b>~</b>
have a U-value must be calcula	and a Solar accord	Heat Gair dance with	n Coefficie n National	ent (SHGC) n Fenestration	o greater than that listed in the tabl	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		<b>✓</b>	<b>~</b>
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.							✓	<b>✓</b>	✓
For projections described as a ratio, the ratio of the projection from the wall to the height above the window or glazed door sill must be at least that shown in the table below.						✓	<b>✓</b>	✓	
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.						<b>✓</b>	✓		
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.						✓	✓		
Windows an	d glazed o	doors g	lazing r	equiremer	nts				
Window / door no.				•	Shading device	Frame and glass type			
W1	N	0.45	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W2	W	0.45	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

BASIX Certificate number: A354081 page 6 / 7

Glazing requirements							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	N	0.45	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W4	N	2.76	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W5	E	6.5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	N	1.1	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W7	E	6.8	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W8	S	2	0	0	projection/height above sill ratio >=0.23	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W9	W	5	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	W	0.54	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			
W11	W	0.54	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single pyrolytic low-e, (U-value: 3.99, SHGC: 0.4)			

BASIX Certificate number: A354081 page 7 / 7

## 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.