# **BASIX** Certificate

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

# **Alterations and Additions**

Certificate number: A359770 03

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, 15, October 2019

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



### **Project address** Project name Narrabeen 03 38 Lindley Avenue Narrabeen 2101 Street address Northern Beaches Council Local Government Area Deposited Plan DP7090 Plan type and number 7 Lot number D Section number 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: buckandsimple

ABN (if applicable): 96408653621

escriptio

BASIX Certificate number: A359770\_03 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 1312 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 175 square metres of roof area.		<b>✓</b>	✓
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>	<b>✓</b>
The swimming pool must not have a capacity greater than 40 kilolitres.	<b>✓</b>	<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>	✓

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

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 insulat is not required for parts of altered construction v	<b>√</b>	<b>V</b>	<b>/</b>		
Construction	Additional insulation required (R-value)	Other specifications			
suspended floor with open subfloor: concrete (R0.6).	R0.9 (down) (or R1.50 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				
flat ceiling, pitched roof	ceiling: R2.25 (up), roof: foil/sarking	light (solar absorptance < 0.475)			

Glazing requ	uirements						Show on DA Plans	Show on CC/CDC Plans &	Certifier Check
								specs	
Windows and	d glazed do	ors							
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	<b>✓</b>	<b>✓</b>	✓
The following r	equirements	must also	be satisf	ied in relatior	n to each window and glazed door:			<b>✓</b>	✓
have a U-value	and a Solar	Heat Gair	n Coeffici	ent (SHGC) r		ed glass may either match the description, or, le below. Total system U-values and SHGCs s.		✓	<b>✓</b>
have a U-value must be calcul	e and a Solar ated in accord	Heat Gair dance with	n Coeffici h Nationa	ent (SHGC) r I Fenestratio	no greater than that listed in the tab	ear 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>
					f each eave, pergola, verandah, bal than 2400 mm above the sill.	lcony or awning must be no more than 500 mm	✓	✓	✓
Pergolas with	oolycarbonate	e roof or s	imilar trar	nslucent mate	erial must have a shading coefficien	nt of less than 0.35.		<b>✓</b>	✓
External louvre	External louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed.								✓
	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.								✓
	Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.						✓	✓	<b>✓</b>
Windows a	nd glazed	doors g	lazing r	equireme	nts				
Window / door no.	Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
WG.01	W	6	4.5	6.6	external louvre/blind (fixed)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WG.02	N	17	0	0	eave/verandah/pergola/balcony	standard aluminium, single clear, (or			

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			
					>=900 mm	U-value: 7.63, SHGC: 0.75)			
WG.03	N	17	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WG.04	Е	4	0.8	1.15	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
WG.05	S	1.75	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W1.01	W	1.95	0	0	external louvre/blind (fixed)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W1.02	N	2.6	7.2	14	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1.03	N	7	7.2	14	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1.04	N	4.2	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1.05	N	8.1	0	0	external louvre/blind (adjustable)	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1.06	N	2.1	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1.07	E	2.92	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1.08	E	3.92	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W1.09	S	4.2	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W1.10	S	1.8	0	0	none	standard aluminium, single clear, (or			

Glazing requ	irements						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)	dowing Distance (m)	Shading device	Frame and glass type			
						U-value: 7.63, SHGC: 0.75)			
W1.11	S	1.8	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W1.12	W	0.6	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

BASIX Certificate number: A359770\_03 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.