BASIX Certificate

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

Alterations and Additions

Certificate number: A393165

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, 17, November 2020

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



Description of project

-	Project address								
	Project name	Whale Beach Road							
)	Street address	1 Whale Beach Road Avalon Beach 2107							
Project name Street address Local Governr Plan type and Lot number Section numb Project type Dwelling type	Local Government Area	Northern Beaches Council							
	Plan type and number	Deposited Plan 17189							
	Lot number	Vhale Beach Road Avalon Beach 2107 rthern Beaches Council posited Plan 17189 2 parate dwelling house renovation work is valued at \$50,000 or more,							
	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: AH Design

ABN (if applicable): 28 863 393 321

BASIX Certificate number: A393165 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 1968 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 40 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.		✓	✓
Outdoor swimming pool			
The swimming pool must be outdoors.	✓	✓	✓
The swimming pool must not have a capacity greater than 30 kilolitres.	✓	✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must install the following heating system for the swimming pool that is part of this development: solar only.		✓	✓

BASIX Certificate number: A393165 page 3 / 8

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			
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: A393165 page 4 / 8

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 insuling is not required for parts of altered construction	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			
suspended floor with enclosed subfloor: framed (R0.7).	R0.60 (down) (or R1.30 including construction)				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
raked ceiling, pitched/skillion roof: framed	ceiling: R1.74 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			

BASIX Certificate number: A393165 page 5 / 8

Glazing re	quirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows a	and glazed do	oors							
The applicar Relevant over	✓	~	~						
The followin	g requirements			✓	✓				
have a U-va	lue and a Solar	Heat Gair	n Coefficie	ent (SHGC) r		ed glass may either match the description, or, le below. Total system U-values and SHGCs s.		✓	✓
					f each eave, pergola, verandah, bal than 2400 mm above the sill.	cony or awning must be no more than 500 mm	✓	✓	~
Pergolas wit	th polycarbonat	e roof or s	imilar trar	slucent mate	erial must have a shading coefficien	at of less than 0.35.		✓	✓
					e window or glazed door above whi ens must not be more than 50 mm.	ch they are situated, unless the pergola also		✓	~
	ving buildings o the 'overshadov				nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows	and glazed	doors g	lazing r	equireme	nts				
Window / do	oor Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	Distance (m)	Shading device	Frame and glass type			
W1	NW	4.2	0	0	awning (fixed) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W2	SE	3.78	0	0	awning (fixed) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W3	NE	3.78	0	0	awning (fixed) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W4	SE	8.64	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			

BASIX Certificate number: A393165 page 6 / 8

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			
W5	NE	4.5	8	3.5	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W6	NW	0.68	8	3.5	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W7	NE	2.7	8	3.5	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W8	NE	2.7	8	3.5	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W9	SE	0.68	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W10	NE	7.56	0	0	awning (fixed) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W11	SE	3.06	0	0	none	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W12	SW	1.44	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W13	SW	1.26	0	0	eave/verandah/pergola/balcony >=600 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W14	NW	0.23	0	0	awning (fixed) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W15	SW	0.2	0	0	awning (fixed) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W16	SW	0.23	0	0	awning (fixed) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W17	NW	0.2	0	0	awning (fixed) >=900 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			

BASIX Certificate number: A393165 page 7 / 8

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			
W18	SW	2.16	0	0	eave/verandah/pergola/ba >=600 mm	alcony	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W19	SW 1.08 0 eave/verandah/pergola/balcony timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)									
W20	SW	1.08	0	0	eave/verandah/pergola/ba >=600 mm	alcony	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W21	SW	1.08	0	0	eave/verandah/pergola/ba >=600 mm	alcony	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
Skylights										
The applicant m	nust install the	e skylight	s in accor	dance with th	ne specifications listed in th	ne table b	elow.	✓	✓	~
The following re	equirements r	must also	be satisfi	ed in relation	to each skylight:				✓	✓
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.									✓	✓
Skylights glazing requirements										
Skylight number Area of glazing inc. frame (m2) Shading device Frame and glass type										
S1	0.72		no shad	ing			E internal/argon fill/clear external, (or 5, SHGC: 0.456)			

BASIX Certificate number: A393165 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.