BASI Certificate

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

Alterations and Additions

Certificate number A167720_04

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 29/9/2006 published by Planning & Infrastructure. This document is available at www basix nsw gov au

This certificate is a revision of certificate number A167720_02 lodged with the consent authority or certifier on 15 Oct 2013 with application DA2013/1229

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

Director-General
Date of issue Monday, 19, May 2014
To be valid, this certificate must be lodged within 3 months of the date of issue



Description of project

Project address	
Project name	Napier Residence_04
Street address	114 Delmar Parade Dee Why 2099
Local Government Area	Warringah Council
Plan type and number	Deposited Plan 8270
Lot number	6
Section number	В
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 Architexture

ABN (if applicable) 132171067

Pool and Spa		Show on CC/CDC Plans & specs	Certifier Check
Rainwater tank	مستسبب فينيب فيسادا القا		al langui anno anno anno anno anno anno anno ann
The applicant must install a rainwater tank of at least 1465 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	✓	1	✓
The applicant must configure the rainwater tank to collect rainwater runoff from at least 103 21 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			- A second
The swimming pool must be outdoors	✓	✓	✓
The swimming pool must not have a capacity greater than 59 52 kilolitres	✓	✓	✓
The swimming pool must have a pool cover		✓	✓
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 (gas boosted)		✓	✓

Fixtures and systems. Show on DA Plans		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	✓	

Construction			Show on DA Pláns	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 insulates not required for parts of altered construction with the construction with the construction of the construction with the construction of the construction with the construction with the construction of the constru	tion is not required where the area of new consti		✓	√	✓
Construction	Additional insulation required (R-value)	Other specifications			
floor above existing dwelling or building	nıl				
external wall framed (weatherboard, fibro, metal clad)	R1 30 (or R1 70 including construction)				
external wall external insulated façade system (EIFS)(façade panel 70 mm)	nil				
raked ceiling, pitched/skillion roof framed	ceiling R1 74 (up), roof foil backed blanket (55 mm)	medium (solar absorptance 0 475 - 0 70)			

Glazing	requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window	s and glazed do	ors		A Company of the Company			20		
The appl Relevant	icant must install th overshadowing sp	e windows	s, glazed o	doors and she satisfied for	nading devices, in accordance with each window and glazed door	the specifications listed in the table below	✓	✓	✓
The follo	wing requirements	must also	be satisfie	ed in relation	to each window and glazed door			1	1
have a U	-value and a Solar calculated in accord	Heat Gair dance with	Coefficie National	nt (SHGC) r Fenestration	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		✓	~
					each eave, pergola, verandah, bal han 2400 mm above the sill	cony or awning must be no more than 500 mm	✓	✓	✓
	ctions described as shown in the table		ne ratio of	the projection	on from the wall to the height above	e the window or glazed door sill must be at	✓	✓	✓
Pergolas	with polycarbonate	roof or s	mılar tran	slucent mate	erial must have a shading coefficier	nt of less than 0 35		✓	✓
External	louvres and blinds	must fully	shade the	window or	glazed door beside which they are	situated when fully drawn or closed		✓	1
					window or glazed door above whi ens must not be more than 50 mm	ch they are situated, unless the pergola also		✓	✓
	dowing buildings or in the 'overshadow				nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windo	ws and glazed	doors gl	azing re	equireme	nts				
Window / door no	Orientation	Area of glass inc. frame (m2)	1	dowing Distance (m)	Shading device	Frame and glass type			
W1	E	18 9	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W2	N	5 7	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			

Glazing	requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door no.	Orientation	Area of glass inc. frame (m2)	Height	dowing Distance (m)	Shading device	Frame and glass type			
W3	W	1 9	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)	1		
W4	N	4 3	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)	- 		
W5	Е	7 5	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W6	Е	5 2	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W7	N	11 5	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W8	N	0 9	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)		:	
W9	N	8 4	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W10	W	0 6	1 55	2.17	projection/height above sill ratio >=0 43	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W11	S	9 6	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W12	S	6 2	0	0	none	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W13	E	2	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value 4 48, SHGC 0 46)			
W14	E	1 4	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value 4 48, SHGC 0 46)			
W15	E	4	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value 4 48, SHGC 0 46)			

Glazing	requirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window / door .no	Orientation	Area of glass inc. frame (m2)	<u> </u>	Distance (m)	Shading device	Frame and glass type			
W16	E	12	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value 448, SHGC 046)			
W17	W	0 7	0	0	projection/height above sill ratio >=0 29	improved aluminium, single pyrolytic low-e, (U-value 4 48, SHGC 0 46)			
W18	S	11	0	0	none	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W1A	Е	3 8	0	0	external louvre/blind (fixed)	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W1B	N	29	0	0	eave/verandah/pergola/balcony >=900 mm	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W4A	W	29	5 9	2 6	none	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W4B	W	12	5 9	26	none	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W4C	W	1 4	5 9	26	none	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			
W10A	W	1 1	1 55	2 17	projection/height above sill ratio >=0 43	improved aluminium, single clear, (U-value 6 44, SHGC 0 75)			

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