page 1 / 9

BASIX[°]Certificate

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

Alterations and Additions

Certificate number: A383818_02

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, 21, July 2020 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project address	
Project name	14 Ernest Street Balgowlah Heights_02
Street address	14 Ernest Street Balgowlah Heights 2093
Local Government Area	Northern Beaches Council
 Plan type and number	Deposited Plan 31138
Lot number	15A
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: Action Plans

ABN (if applicable): 17118297587

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 2843 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 245 square metres of roof area.		\checkmark	\checkmark
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool and outdoor spa.		\checkmark	\checkmark
Outdoor swimming pool		1	
The swimming pool must be outdoors.	\checkmark	\checkmark	\checkmark
The swimming pool must not have a capacity greater than 55 kilolitres.	\checkmark	 	\checkmark
The swimming pool must have a pool cover.		 	\checkmark
The applicant must install a pool pump timer for the swimming pool.		 	\checkmark
The applicant must install the following heating system for the swimming pool that is part of this development: electric heat pump.		~	\checkmark
Outdoor spa	1	1	L.
The spa must not have a capacity greater than 5 kilolitres.	\checkmark	 	\checkmark
The spa must have a spa cover.		~	\checkmark
The applicant must install a spa pump timer.		\checkmark	\checkmark
The applicant must install the following heating system for the outdoor spa that is part of this development: electric heat pump.		\checkmark	\checkmark

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.		 	\checkmark
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.		~	\checkmark
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 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 insula is not required for parts of altered construction	~	\checkmark	~		
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)				
external wall: other/undecided	R1.70 (including construction)				
flat ceiling, pitched roof	ceiling: R2.50 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			
flat ceiling, flat roof: framed	ceiling: R2.50 (up), roof: foil/sarking	medium (solar absorptance 0.475 - 0.70)			

Glazing ı	requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check					
Windows	s and glazed d	loors							
					hading devices, in accordance with r each window and glazed door.	the specifications listed in the table below.	\checkmark	~	~
The follow	ving requirements		\checkmark	\checkmark					
have a U-v	dow or glazed dov value and a Sola alculated in acco		~	~					
have a U-v must be ca	dow or glazed do value and a Sola alculated in acco native systems v		~	~					
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.								~	~
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.								\checkmark	\checkmark
External lo	ouvres and blinds	s must fully	shade the	window or	glazed door beside which they are	situated when fully drawn or closed.		\checkmark	\checkmark
					e window or glazed door above whi ens must not be more than 50 mm.	ich they are situated, unless the pergola also		~	~
Window	s and glazed	l doors g	lazing r	equireme	nts				
Window / no.	door Orientation	n Area of glass inc. frame (m2)	Oversha Height (m)	dowing Distance (m)	Shading device	Frame and glass type			
W1	N	2.7	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W2	E	1.59	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W3	E	1.27	0	0	eave/verandah/pergola/balcony	standard aluminium, single pyrolytic low-e,			

Glazing requ	irements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check					
Window / door	Orientation	Area of	Oversha	adowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=600 mm	(U-value: 5.7, SHGC: 0.47)			
W4	E	1.2	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W5	W	0.96	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W6	E	0.96	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W7	W	1.08	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W8	W	0.46	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W9	W	1.08	0	0	eave/verandah/pergola/balcony >=600 mm	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W10	N	1.69	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	W	0.46	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	W	1.08	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	W	2.04	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W14	N	2.04	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W15	N	2.04	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W16	E	2.04	0	0	eave/verandah/pergola/balcony	standard aluminium, single pyrolytic low-e,			

Glazing requ	irements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check			
Window / door	Orientation	Area of	Oversha	dowing	Shading device	Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)					
					>=750 mm	(U-value: 5.7, SHGC: 0.47)			
W17	E	2.17	0	0	eave/verandah/pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W18	Ν	1.7	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W19	E	3	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W20	E	1.08	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
W21	E	1.08	0	0	eave/verandah/pergola/balcony >=600 mm	standard aluminium, single pyrolytic low-e, (U-value: 5.7, SHGC: 0.47)			
D1	S	3.24	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D2	N	7.45	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D3	N	7.45	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D4	S	7.2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D5	S	4.8	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D6	S	7.2	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D7	N	6	0	0	eave/verandah/pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W22	W	4.06	0	0	external louvre/blind (adjustable)	standard aluminium, single clear, (or			

Glazing req	ndow / door Orientation Area of Overshadowing Shading device Frame and glass type									Certifier Check
Window / doo	or Orientation		Oversha	Idowing	Shading device		Frame and glass type			
no.		glass inc. frame (m2)	Height (m)	Distance (m)	-					
							U-value: 7.63, SHGC: 0.75)			
Skylights									<u> </u>	<u> </u>
, 0	must install th	e skylight	s in accor	dance with th	ne specifications list	ed in the table b	elow.	 ✓ 	 	
The following	The following requirements must also be satisfied 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.								\checkmark	~
External awni	ngs and louvre	es must fu	lly shade	the skylight a	above which they a	e situated when	fully drawn or closed.		\checkmark	~
Skylights g	glazing requ	uiremen	ts					_		
Skylight num	ber Area of g inc. fram		Shading	device		Frame and	glass type			
S1	0.847		no shadi	ing		aluminium, 6.21, SHGC	moulded plastic single clear, (or U-value: C: 0.808)]		
S2	0.847		external	adjustable a	wning or blind	aluminium, 6.21, SHGC	moulded plastic single clear, (or U-value: C: 0.808)			
S3	0.847		external	adjustable a	wning or blind	aluminium, 6.21, SHGC	moulded plastic single clear, (or U-value: C: 0.808)			
S4	1.625		external	adjustable a	wning or blind	aluminium, 6.21, SHGC	moulded plastic single clear, (or U-value: C: 0.808)			
S5	0.847		external	adjustable a	wning or blind	aluminium, 6.21, SHGC	moulded plastic single clear, (or U-value: 2: 0.808)			

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.