

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

Alterations and Additions

Certificate number: A487503_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 Definitions" dated 10/09/2020 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Thursday, 07 March 2024

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



Project address	
Project name	0973_02
Street address	32 TIPPERARY AVENUE - KILLARNEY HEIGHTS 2087
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 218045
Lot number	491
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 does not include a pool (and/or spa).
N/A	N/A
Certificate Prepared by (please	complete before submitting to Council or PCA)
Name / Company Name: ACTION PLAN	IS PTY LTD
ABN (if applicable): 55660046711	

BASIX Certificate number: A487503_02 page 2/10

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.		~	~
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: A487503_02 page 3/10

Construction	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check		
Insulation requirements					
The applicant must construct the new or alte listed in the table below, except that a) additional insulation specified is not required for parts	~	~	~		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil	N/A			
floor above existing dwelling or building.	nil	N/A			
external wall: brick veneer	R1.16 (or R1.70 including construction)				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R0.95 (up), roof: foil backed blanket (75 mm)	medium (solar absorptance 0.475 - 0.70)			

BASIX Certificate number: A487503_02 page 4/10

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check				
Windows and glazed doors							
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.	~	~	~				
The following requirements must also be satisfied in relation to each window and glazed door:		~	~				
Each window or glazed door with standard aluminium or timber frames and single clear or toned glass 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. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.		~	~				
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		~	~				
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.	~	~	V				
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		~	~				
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.		~	~				

BASIX Certificate number: A487503_02 page 5/10

Glazing requir	ements		Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check				
Windows and gla	zed doors glazing								
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W01	N	1.08	0	0	none	timber or uPVC, double Lo-Tsol/air gap/clear, (U-value: 2.3, SHGC: 0.19)			
W02	N	1.08	0	0	none	timber or uPVC, double Lo-Tsol/air gap/clear, (U-value: 2.3, SHGC: 0.19)			
W03	E	2.16	0	0	none	timber or uPVC, double Lo-Tsol/air gap/clear, (U-value: 2.3, SHGC: 0.19)			
W04	W	1.89	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W05	E	1.08	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

BASIX Certificate number: A487503_02 page 6/10

Glazing require	Glazing requirements								Certifier Check
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W06	E	5.28	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W07	W	1.26	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U- value: 5.7, SHGC: 0.47)			
W08	W	1.26	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W09	W	1.26	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	W	1.26	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

BASIX Certificate number: A487503_02 page 7/10

Glazing requir	ements		Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check				
Windows and gla	zed doors glazing	requirements							
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W11	N	1.63	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	E	2.52	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U- value: 5.7, SHGC: 0.47)			
W13	E	2.52	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U- value: 5.7, SHGC: 0.47)			
W14	E	2.52	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U- value: 5.7, SHGC: 0.47)			
W15	E	3.78	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U- value: 5.7, SHGC: 0.47)			

BASIX Certificate number: A487503_02 page 8/10

Glazing requir	ements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W16	S	1.63	0	0	eave/ verandah/ pergola/balcony >=750 mm	standard aluminium, single pyrolytic low-e, (U- value: 5.7, SHGC: 0.47)			
D01	E	8.64	0	0	none	timber or uPVC, double Lo-Tsol/air gap/clear, (U-value: 2.3, SHGC: 0.19)			
D02	W	6.75	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D03	W	10.05	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D05	N	6.66	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
D06	W	7.1	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W17	E ironment	0.54	0	0	eave/ verandah/ pergola/balcony >=450 mm	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)	Building S	ustainability Index www.ba	six.nsw.gov.au
W18	Е	2.94	0	0	eave/ verandah/	standard aluminium,			

BASIX Certificate number: A487503_02 page 9/10

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check				
Skylights							
The applicant must install th	ne skylights in accordance with the spec	~	~	~			
The following requirements	The following requirements must also be satisfied in relation to each skylight:						
Each skylight may either ma listed in the table below.		~	~				
Skylights glazing requiren	nents						
Skylight number	Skylight number Area of glazing inc. frame Shading device Frame and glass type (m2)						
S01	1.625 no shading timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)						
S02	1.625	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)				

BASIX Certificate number: A487503_02 page 10/10

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.