BASIX Certificate

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

Alterations and Additions

Certificate number: A421394

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: Monday, 28, June 2021

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



Description of project

Project address			
Project name	3 Lido Avenue, North Narrabeen		
Street address	3 Lido Avenue North Narrabeen 2101		
Local Government Area	Northern Beaches Council		
Plan type and number	Deposited Plan 16719		
Lot number	280		
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: AENEC - Office: 02 9994 8906

ABN (if applicable): 32612556377

BASIX Certificate number: A421394 page 2 / 8

Pool and Spa	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Outdoor swimming pool	<u>'</u>		
The swimming pool must be outdoors.	~	✓	✓
The swimming pool must not have a capacity greater than 19 kilolitres.	✓	✓	✓
The swimming pool must have a pool cover.		✓	✓
The applicant must install a pool pump timer for the swimming pool.		✓	✓
The applicant must not incorporate any heating system for the swimming pool that is part of this development.		✓	✓

BASIX Certificate number: A421394 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		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.		✓	~
Fixtures	<u>'</u>	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.		✓	✓
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: A421394 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 insular is not required for parts of altered construction	√	√	~		
Construction	Additional insulation required (R-value)	Other specifications			
concrete slab on ground floor.	nil				
suspended floor with open subfloor: framed (R0.7).	R0.8 (down) (or R1.50 including construction)				
suspended floor above garage: framed (R0.7).	nil				
floor above existing dwelling or building.	nil				
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)				
flat ceiling, pitched roof	ceiling: R3.00 (up), roof: foil/sarking	dark (solar absorptance > 0.70)			
flat ceiling, flat roof: framed	ceiling: R3.00 (up), roof: foil/sarking	dark (solar absorptance > 0.70)			

BASIX Certificate number: A421394 page 5 / 8

Glazing red	luirements						Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Windows ar	nd glazed do	oors							
					nading devices, in accordance with reach window and glazed door.	the specifications listed in the table below.	✓	✓	✓
The following	requirements	must also	be satisfi	ed in relatior	n to each window and glazed door:			✓	✓
have a U-valu	ie and a Solar	Heat Gai	n Coefficie	ent (SHGC) r		d glass may either match the description, or, le below. Total system U-values and SHGCs		✓	✓
have a U-valu must be calcu	ue and a Solar ulated in accor	Heat Gai	n Coefficie h National	ent (SHGC) r Fenestration	no greater than that listed in the tabl	ar glazing, or toned/air gap/clear glazing must le below. Total system U-values and SHGCs s. The description is provided for information		✓	~
	ns described a wn in the table		he ratio of	the projection	on from the wall to the height above	the window or glazed door sill must be at	✓	✓	✓
Overshadowing specified in the					nt and distance from the centre and	the base of the window and glazed door, as	✓	✓	✓
Windows a	and glazed	doors g	lazing r	equireme	nts				
Window / doo no.	or Orientation	Area of glass inc. frame (m2)	Oversha Height (m)	adowing Distance (m)	Shading device	Frame and glass type			
W01	SE	1.02	0	0	none	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W02	SW	5.88	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W03	NW	0.87	5.2	6.9	none	aluminium, double Lo-Tsol/air gap/clear, (U-value: 4.9, SHGC: 0.33)			
W04	NE	3.6	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			

BASIX Certificate number: A421394 page 6 / 8

Glazing requirements								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			
W05	SE	0.62	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W06	SE	0.62	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W07	SE	1.24	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W08	SE	1.91	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W09	SE	0.87	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W10	SE	0.87	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W11	SW	1.86	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W12	SW	2.72	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W13	NW	1.44	0	0	projection/height above sill ratio >=0.43	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W14	NW	1.86	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W15	NW	0.62	0	0	projection/height above sill ratio >=0.36	standard aluminium, single clear, (or U-value: 7.63, SHGC: 0.75)			
W16	NE	2.72	0	0	projection/height above sill ratio >=0.36	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			
W17	NE	3.6	0	0	projection/height above sill ratio >=0.23	improved aluminium, single pyrolytic low-e, (U-value: 4.48, SHGC: 0.46)			

BASIX Certificate number: A421394 page 7 / 8

Glazing require	ements			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Skylights						
The applicant mu	st install the skyligh	ts in accordance with the specif	ications listed in the table below.	✓	✓	✓
The following req	uirements must also	be satisfied in relation to each	skylight:		✓	✓
Each skylight ma the table below.	y either match the d	escription, or, have a U-value a	nd a Solar Heat Gain Coefficient (SHGC) no greater than that listed in		✓	✓
Skylights gla	zing requiremer	nts				
Skylight number	Area of glazing inc. frame (m2)	Shading device	Frame and glass type			
SK1	0.44	no shading	aluminium, moulded plastic single clear, (or U-value: 6.21, SHGC: 0.808)			
SK2	1.34	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
SK3	1.34	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
SK4	0.92	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			
SK5	1.34	no shading	timber, low-E internal/argon fill/clear external, (or U-value: 2.5, SHGC: 0.456)			

BASIX Certificate number: A421394 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.