BASIX[°]Certificate

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

Single Dwelling

Certificate number: 1332612S

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, 18 August 2022 To be valid, this certificate must be lodged within 3 months of the date of issue.



Planning, Industry & Environment

Project summary					
Project name	42 Macmillan Street				
Street address	42 Macmillan Street Seaforth 2093				
Local Government Area	Northern Beaches Council				
Plan type and plan number	deposited 6210				
Lot no.	7				
Section no.	-				
Project type	separate dwelling house - secondary dwelling				
No. of bedrooms	1				
Project score					
Water	V 40 Target 40				
Thermal Comfort	V Pass Target Pass				
Energy	V 50 Target 50				

Name / Company Name: Arianna Rosnell

ABN (if applicable): N/A

Description of project

Project address

Project name	42 Macmillan Street
Street address	42 Macmillan Street Seaforth 2093
Local Government Area	Northern Beaches Council
Plan type and plan number	Deposited Plan 6210
Lot no.	7
Section no.	-
Project type	
Project type	separate dwelling house - secondary dwelling
No. of bedrooms	1
Site details	
Site area (m²)	588
Roof area (m ²)	59
Conditioned floor area (m2)	62.43
Unconditioned floor area (m2)	6.39
Total area of garden and lawn (m2)	40
Roof area (m2) of the existing dwelling	235
No. of bedrooms in the existing dwelling	3

Assessor details and thermal lo	bads	
Assessor number	n/a	
Certificate number	n/a	
Climate zone	n/a	
Area adjusted cooling load (MJ/m ² .year)	n/a	
Area adjusted heating load (MJ/m ² .year)	n/a	
Ceiling fan in at least one bedroom	n/a	
Ceiling fan in at least one living room or other conditioned area	n/a	
Project score		
Water	40	Target 40
Thermal Comfort	🧹 Pass	Target Pass
Energy	50	Target 50

Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Landscape			
The applicant must plant indigenous or low water use species of vegetation throughout 10 square metres of the site.	v	~	
Fixtures			
The applicant must install showerheads with a minimum rating of 4 star (> 4.5 but <= 6 L/min plus spray force and/or coverage tests) in all showers in the development.		~	~
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		~	~
The applicant must install taps with a minimum rating of 4 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 4 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 2000 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 rain runoff from at least 59.38 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	~
The applicant must connect the rainwater tank to:			
 at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.) 		 Image: A second s	~

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
General features			
The dwelling must not have more than 2 storeys.	~	~	~
The conditioned floor area of the dwelling must not exceed 300 square metres.	~	~	~
The dwelling must not contain open mezzanine area exceeding 25 square metres.	~	~	~
The dwelling must not contain third level habitable attic room.	~	~	~
Floor, walls and ceiling/roof			
The applicant must construct the floor(s), walls, and ceiling/roof of the dwelling in accordance with the specifications listed in the table below.	~	~	~

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground, 31.49 square metres	nil	
floor - above habitable rooms or mezzanine, 32.76 square metres, framed	nil	
external wall - brick veneer	1.86 (or 2.40 including construction)	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
external wall - framed (weatherboard, fibre cement, metal clad)	2.00 (or 2.40 including construction)	
ceiling and roof - raked ceiling / pitched or skillion roof, framed	ceiling: 3.5 (up), roof: foil backed blanket (55 mm)	framed; medium (solar absorptance 0.475-0.70)

Note
 Insulation specified in this Certificate must be installed in accordance with Part 3.12.1.1 of the Building Code of Australia.
 Note
 In some climate zones, insulation should be installed with due consideration of condensation and associated interaction with adjoining building materials.

Thermal Comfort Cor	nmitments					Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Windows, glazed doo	ors and skylights	5						
The applicant must install th specifications listed in the ta	ne windows, glazed d able. Relevant oversh	loors and shadi nadowing speci	ng devices described in the fications must be satisfied	e table below, in acc for each window an	ordance with the diglazed door.	~	~	~
The dwelling may have 1 sk	ylight (<0.7 square n	netres) which is	not listed in the table.			~	~	~
The following requirements	must also be satisfie	d in relation to	each window and glazed d	oor:		~	~	~
• For the following glass a	and frame types, the	certifier check o	an be performed by visual	inspection.		-	-	L.
- Aluminium single cle	ar							
- Aluminium double (a								
- Timber/uPVC/fibregla	ass single clear							
- Timber/uPVC/fibregla	ass double (air) clear	r						
	Solar Heat Gain Coef Jance with National F	ficient (SHGC)	or must be accompanied w within the range of those li ting Council (NFRC) condi	sted. Total system I	J values and SHGC must			~
 Overshadowing building door, as specified in th 			nd distance from the centr	e and the base of th	e window and glazed	~	~	-
The applicant must install th skylight area must not excer 0.7 square metres that does	ed 3 square metres (the 3 square m				~	~	~
Skylight no.	Maximum area (metres)	(square	Туре		Shading	device		
S01	0.70		aluminium, moulded plasti	c single clear	no shadi	ng		
Window/glazed door no.	Maximum height (mm)	Maximum wi (mm)	dth Type		Shading Device (Dimen 10%)	sion within	Overshadowing	

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W6	1250	900	U-value: 5.4, SHGC: 0.441 - 0.539 (aluminium, single, Hi-Tsol Low-e)	eave 450 mm, 950 mm above head of window or glazed door	not overshadowed
WD1	2100	3000	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	verandah 2320 mm, 2390 mm above base of window or glazed door	not overshadowed
WD2	2100	3000	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	eave 450 mm, 950 mm above head of window or glazed door	not overshadowed
South facing					
W1	1450	1600	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	eave 450 mm, 275 mm above head of window or glazed door	>4 m high, 5-8 m away
W2	500	1000	U-value: 5.4, SHGC: 0.441 - 0.539 (aluminium, single, Hi-Tsol Low-e)	eave 450 mm, 90 mm above head of window or glazed door	>4 m high, 5-8 m away
W3	500	1400	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	eave 450 mm, 90 mm above head of window or glazed door	>4 m high, 5-8 m away
W4	500	1400	U-value: 5.4, SHGC: 0.522 - 0.638 (aluminium, single, Hi-Tsol Low-e)	eave 450 mm, 90 mm above head of window or glazed door	>4 m high, 5-8 m away
W5	500	1000	U-value: 5.4, SHGC: 0.441 - 0.539 (aluminium, single, Hi-Tsol Low-e)	eave 450 mm, 90 mm above head of window or glazed door	>4 m high, 5-8 m away

Energy Commitments	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, or a system with a higher energy rating: gas instantaneous with a performance of 5.5 stars.	~	v	~
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 6 star (average zone)		~	~
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 6 star (average zone)		v	~
The cooling system must provide for day/night zoning between living areas and bedrooms.		v	~
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 6 star (average zone)		~	~
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 1-phase airconditioning; Energy rating: 6 star (average zone)		~	~
The heating system must provide for day/night zoning between living areas and bedrooms.		v	~
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off		~	~
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		 Image: A set of the set of the	 ✓
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		 Image: A set of the set of the	~
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:			
 at least 1 of the bedrooms / study; dedicated 		~	~

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least 1 of the living / dining rooms; dedicated		~	~
the kitchen; dedicated		 	~
all bathrooms/toilets; dedicated		 	~
the laundry; dedicated		 Image: A set of the set of the	~
all hallways; dedicated		 Image: A set of the set of the	~
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	~	~	~
The applicant must install a window and/or skylight in 2 bathroom(s)/toilet(s) in the development for natural lighting.	~	>	>
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		~	
The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		~	
The applicant must install a fixed indoor or sheltered clothes drying line as part of the development.		_	

Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a vi 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 vi in the "Show on CC/CDC plans and 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 vi in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate(either interim or final) for the development may be issued.