

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

Single Dwelling

Certificate number: 1159826S

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

BASIX

Date of issue: Friday, 04 December 2020

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



Project summary			
Project name	Bennett -BCC:PW		
Street address	27 Grenfell Avenue North Narrabeen 2101		
Local Government Area	Northern Beaches Council		
Plan type and plan number	deposited 23429		
Lot no.	82		
Section no.	-		
Project type	separate dwelling house - secondary dwelling		
No. of bedrooms	1		
Project score			
Water	√ 40 Target 40		
Thermal Comfort	✓ Pass Target Pass		
Energy	✓ 50 Target 50		

Certificate	Prepared	by
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Name / Company Name: BASIX Certificate Centre

ABN (if applicable): 31 430 367 846

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Description of project

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Project address	
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Plan type and plan number	Deposited Plan 23429
Lot no.	82
Section no.	-
Project type	
Project type	separate dwelling house - secondary dwelling
No. of bedrooms	1
Site details	
Site area (m²)	664
Roof area (m²)	85
Conditioned floor area (m2)	59.2
Unconditioned floor area (m2)	8.3
Total area of garden and lawn (m2)	48
Roof area (m2) of the existing dwelling	156
No. of bedrooms in the existing dwelling	3

Assessor details and thermal I	oads	
Assessor number	n/a	
Certificate number	n/a	
Climate zone	n/a	
Area adjusted cooling load (MJ/m².year)	n/a	
Area adjusted heating load (MJ/m².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

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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
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.		~	V
The applicant must install taps with a minimum rating of 3 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 1000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	~	~	V
The applicant must configure the rainwater tank to collect rain runoff from at least 41.5 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	v
The applicant must connect the rainwater tank to:			
all toilets in the development		✓	V
the cold water tap that supplies each clothes washer in the development		~	V
 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.) 		~	V

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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.	V	~	~
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	~	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	~	V
The dwelling must not contain third level habitable attic room.		V	V
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.	V	→	-

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground, 17 square metres	nil	
floor - suspended floor above enclosed subfloor, 15 square metres, other/undecided	1.30 (or 1.3 including construction) (down)	
floor - above habitable rooms or mezzanine, 17 square metres, other/undecided	nil	
floor - suspended floor above garage, other/undecided	nil	
external wall - cavity brick	0.50 (or 1.17 including construction)	
external wall - other/undecided	2.40 (including construction)	
internal wall shared with garage - other/undecided	nil	
ceiling and roof - raked ceiling / pitched or skillion roof, framed	ceiling: 4 (up), roof: foil/sarking	framed; medium (solar absorptance 0.475-0.70)
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 4 (up), roof: foil/sarking	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.

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check		
Windows, glazed doors and skylights					
The applicant must install the windows, glazed doors and shading devices described in the table below, in accordance with the specifications listed in the table. Relevant overshadowing specifications must be satisfied for each window and glazed door.	~	~	~		
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	V	~	V		
The following requirements must also be satisfied in relation to each window and glazed door:	V	~	V		
• For the following glass and frame types, the certifier check can be performed by visual inspection.			-		
- Aluminium single clear					
- Aluminium double (air) clear					
- Timber/uPVC/fibreglass single clear					
- Timber/uPVC/fibreglass double (air) clear					
• Overshadowing buildings/vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column.	V	~	V		

Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
1700	4140	aluminium, single, clear	eave 600 mm, 300 mm above head of window or glazed door	2-4 m high, 2-5 m away
1700	1600	aluminium, single, clear	eave 450 mm, 1330 mm above head of window or glazed door	not overshadowed
550	3530	aluminium, single, clear	eave 450 mm, 130 mm above head of window or glazed door	not overshadowed
550	1550	aluminium, single, clear	eave 450 mm, 130 mm above head of window or glazed door	not overshadowed
550	2350	aluminium, single, clear	eave 450 mm, 130 mm above head of window or glazed door	not overshadowed
	1700 1700 550	height (mm) (mm) 1700 4140 1700 1600 550 3530 550 1550	height (mm) (mm) 1700 4140 aluminium, single, clear 1700 1600 aluminium, single, clear 550 3530 aluminium, single, clear 550 aluminium, single, clear	height (mm) (mm) 10%) 1700 4140 aluminium, single, clear eave 600 mm, 300 mm above head of window or glazed door 1700 1600 aluminium, single, clear eave 450 mm, 1330 mm above head of window or glazed door 550 3530 aluminium, single, clear eave 450 mm, 130 mm above head of window or glazed door 550 1550 aluminium, single, clear eave 450 mm, 130 mm above head of window or glazed door 550 2350 aluminium, single, clear eave 450 mm, 130 mm above head of window or glazed door

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W1.01	1200	1000	aluminium, single, clear	eave 450 mm, 1210 mm above head of window or glazed door	not overshadowed
W1.02	650	1400	aluminium, single, clear	eave 450 mm, 1070 mm above head of window or glazed door	not overshadowed
W1.03	1700	600	aluminium, single, clear	eave 450 mm, 300 mm above head of window or glazed door	not overshadowed
North-West facing					
W1.05	2400	2600	aluminium, single, clear	verandah 2000 mm, 2700 mm above base of window or glazed door	not overshadowed

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Hot water	<u>'</u>		
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 stars.	~	~	-
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: EER 2.5 - 3.0		~	~
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: EER 2.5 - 3.0		~	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: EER 2.5 - 3.0		~	~
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: EER 2.5 - 3.0		V	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		~	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off			
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		V	
Natural lighting	·		
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	~	~	V
The applicant must install a window and/or skylight in 1 bathroom(s)/toilet(s) in the development for natural lighting.	V	~	V
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 0.6 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	V		

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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 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 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.

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