

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

## Single Dwelling

Certificate number: 1354597S

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: Thursday, 10 November 2022

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



Project summary					
Project name	ject name 12 Coonanga 2				
Street address	12 Coonanga Road	avalon 2107			
Local Government Area	Northern Beaches C	Council			
Plan type and plan number	deposited 14534	deposited 14534			
Lot no.	194	194			
Section no.	-	-			
Project type	separate dwelling ho	separate dwelling house			
No. of bedrooms	3	3			
Project score					
Water	<b>4</b> 0	Target 40			
Thermal Comfort	✓ Pass	Target Pass			
Energy	<b>✓</b> 50	Target 50			

Certificate	Prepared	by
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Name / Company Name: RODNEY BOWRY

ABN (if applicable): 41597707568

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## **Description of project**

BASIX

Project address					
Project name	12 Coonanga 2				
Street address	12 Coonanga Road avalon 2107				
Local Government Area	Northern Beaches Council				
Plan type and plan number	Deposited Plan 14534				
Lot no.	194				
Section no.	-				
Project type					
Project type	separate dwelling house				
No. of bedrooms	3				
Site details					
Site area (m²)	957				
Roof area (m²)	428				
Conditioned floor area (m2)	255.0				
Unconditioned floor area (m2)	20.0				
Total area of garden and lawn (m2)	404				

Assessor details and thermal loads					
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.

Show on DA plans	Show on CC/CDC plans & specs	Certifier check
~	<b>→</b>	
n	~	~
	<b>✓</b>	~
	<b>✓</b>	
	<b>→</b>	
~	<b>→</b>	~
	<b>→</b>	~
	<b>→</b>	-
	•	-
1		
	DA plans	DA plans plans & specs

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The swimming pool must not have a volume greater than 40 kilolitres.	~	<b>~</b>	
The swimming pool must have a pool cover.		V	
The swimming pool must be outdoors.	~	<b>~</b>	
Outdoor Spa			
The spa must not have a volume greater than 3 kilolitres.	-	<b>~</b>	
The spa must have a spa cover.		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	<b>✓</b>	-
The conditioned floor area of the dwelling must not exceed 300 square metres.	V	<b>V</b>	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	<b>V</b>	V
The dwelling must not contain third level habitable attic room.	~	~	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.	~	~	-

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	1 (slab edge)	in-slab heating system
external wall - cavity brick	0.50 (or 1.17 including construction)	
external wall - brick veneer	2.86 (or 3.40 including construction)	
internal wall shared with garage - single skin masonry	nil	
ceiling and roof - raked ceiling / pitched or skillion roof, framed	ceiling: 4.5 (up), roof: foil backed blanket (75 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.

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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.	~	<b>→</b>	~
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	~	<u> </u>	V
The following requirements must also be satisfied in relation to each window and glazed door:		<u> </u>	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			
<ul> <li>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.</li> </ul>	V	<b>~</b>	-
The applicant must install the skylights described in the table below, in accordance with the specifications listed in the table. Total skylight area must not exceed 3 square metres (the 3 square metre limit does not include the optional additional skylight of less than 0.7 square metres that does not have to be listed in the table).	~	~	~

Skylight no.	Maximum area (square metres)	Туре	Shading device
S01	1.40	aluminium, moulded plastic single clear	no shading
S02	1.40	aluminium, moulded plastic single clear	no shading

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing		
North facing	North facing						
W01	2400	700	aluminium, single, clear	solid overhang 2800 mm, 100 mm above head of window or glazed door	not overshadowed		

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W18	1200	6700	aluminium, single, clear	solid overhang 2800 mm, 100 mm above head of window or glazed door	not overshadowed
D01	2100	2100	aluminium, single, clear	solid overhang 2800 mm, 100 mm above head of window or glazed door	not overshadowed
D04	2100	6750	aluminium, single, clear	solid overhang 2800 mm, 100 mm above head of window or glazed door	not overshadowed
East facing					
W02	700	3560	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W03	700	1800	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W04	1200	800	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W05	1000	1800	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W06	1500	2400	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W07	1500	2400	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W08	1200	2000	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W09	2400	800	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W14	1300	1000	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W15	1300	1000	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W16	2400	1000	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
W17	1200	1000	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
South facing		·			
W13	800	6700	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	not overshadowed
D05	2100	3450	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	not overshadowed
West facing					
W19	2000	1000	aluminium, single, clear	eave 600 mm, 200 mm above head of window or glazed door	>4 m high, <2 m away
D02	2400	4800	aluminium, single, clear	eave 600 mm, 100 mm above head of window or glazed door	>4 m high, 2-5 m away
D03	2400	5800	aluminium, single, clear	eave 600 mm, 100 mm above head of window or glazed door	>4 m high, 2-5 m away

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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 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 3.5 - 4.0		<b>~</b>	
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: airconditioning ducting only; Energy rating: n/a		V	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 3.5 - 4.0		<b>~</b>	~
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: airconditioning ducting only; Energy rating: n/a		~	~
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 on / timer off		<b>✓</b>	~
Kitchen: individual fan, not ducted; Operation control: manual switch on/off		<b>✓</b>	-
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		V	<b>V</b>
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 3 of the bedrooms / study;		<b>V</b>	_
at least 1 of the living / dining rooms;		<b>~</b>	-
• the kitchen;			

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
all bathrooms/toilets;		~	V
• the laundry;			
• all hallways;			
Natural lighting			
The applicant must install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting.		~	
Swimming pool			
The applicant must install the following heating system for the swimming pool in the development (or alternatively must not install any heating system for the swimming pool): solar only		<b>~</b>	
The applicant must install a timer for the swimming pool pump in the development.		<b>~</b>	
Outdoor spa	1		
The applicant must install the following heating system for the spa in the development (or alternatively must not install any heating system for the spa): solar (gas boosted)		<b>✓</b>	
The applicant must install a timer for the spa pump in the development.		<b>~</b>	
Alternative energy	1		
The applicant must install a photovoltaic system with the capacity to generate at least 1.8 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	~	•	~
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.		<b>~</b>	
The applicant must install a fixed outdoor clothes drying line as part of the development.			

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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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