

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

Single Dwelling

Certificate number: 1232708S_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

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Date of issue: Monday, 10 January 2022

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



Project cummery	
Project summary	
Project name	ZD House - Secondary Dwelling_02
Street address	56 WOODLAND Street BALGOWLAH HEIGHTS 2093
Local Government Area	Northern Beaches Council
Plan type and plan number	deposited 9928
Lot no.	1
Section no.	-
Project type	unit - secondary dwelling
No. of bedrooms	1
Project score	
Water	✓ 41 Target 40
Thermal Comfort	✓ Pass Target Pass
Energy	✓ 99 Target 50

Certificate F	Prepared	by
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Name / Company Name: Bokey Grant Architects Pty Ltd

ABN (if applicable): 93636703556

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Description of project

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Project address	
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Street address	56 WOODLAND Street BALGOWLAH HEIGHTS 2093
Local Government Area	Northern Beaches Council
Plan type and plan number	Deposited Plan 9928
Lot no.	1
Section no.	-
Project type	
Project type	unit - secondary dwelling
No. of bedrooms	1
Site details	
Site area (m²)	822
Roof area (m²)	24
Conditioned floor area (m2)	20.0
Unconditioned floor area (m2)	4.0
Total area of garden and lawn (m2)	287
Roof area (m2) of the existing dwelling	297
No. of bedrooms in the existing dwelling	4

Assessor details and thermal lo	ads	
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	✓ 41	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	9 9	Target 50

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Schedule of BASIX commitments

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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 150 square metres of the site.	~	~	
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 5 star in each toilet in the development.		~	~
The applicant must install taps with a minimum rating of 5 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.		V	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 10000 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 150 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.) 		~	~

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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	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	V	V

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	nil	
external wall - framed (weatherboard, fibre cement, metal clad)	3.00 (or 3.40 including construction)	
ceiling and roof - flat ceiling / flat roof, concrete/bare internal	ceiling: 3.5 (up), roof: none	concrete/bare internal; light (solar absorptance < 0.475)

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
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			

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
East facing					
W06	850	1325	timber/UPVC/fibreglass, single, clear	eave 2500 mm, 0 mm above head of window or glazed door	not overshadowed
South facing					
W07	1100	960	timber/UPVC/fibreglass, single, clear	eave 2500 mm, 0 mm above head 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			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: solar (electric boosted) with a performance of 26 to 30 STCs or better.	•	~	V
Cooling system			
The living areas must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		~	V
The bedrooms must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		V	V
Heating system			
The living areas must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		~	V
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		~	V
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: no mechanical ventilation (ie. natural); Operation control: n/a		~	V
Kitchen: individual fan, ducted to façade or roof; Operation control: manual on / timer off		V	V
Laundry: natural ventilation only, or no laundry; Operation control: n/a		V	V
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		~	V
Natural lighting	<u> </u>		
The applicant must install a window and/or skylight in 1 bathroom(s)/toilet(s) in the development for natural lighting.	J	Lu.	- U

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 7 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	~	•	V
Other			
The applicant must install an induction 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.			

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Legend

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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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