

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

Single Dwelling

Certificate number: 1051357S

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 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Monday, 14 October 2019

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



Project summary				
Project name	19055 - 53 Essilia Street			
Street address	53 Essilia Street Collaroy Plateau 2097			
Local Government Area	Northern Beaches Council			
Plan type and plan number	deposited 33000			
Lot no.	2			
Section no.	Р			
Project type	separate dwelling house			
No. of bedrooms	4			
Project score				
Water	✓ 44 Target 40			
Thermal Comfort	✓ Pass Target Pass			
Energy	✓ 50 Target 50			

Certificate Prepared by

Name / Company Name: Abeaut Design Pty Ltd t/a Accurate Design and Draf

ABN (if applicable): 66116356551

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Description of project

Project address			
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Street address	53 Essilia Street Collaroy Plateau 2097		
Local Government Area	Northern Beaches Council		
Plan type and plan number	Deposited Plan 33000		
Lot no.	2		
Section no.	Р		
Project type			
Project type	separate dwelling house		
No. of bedrooms 4			
Site details			
Site area (m²)	422		
Roof area (m²)	225		
Conditioned floor area (m2)	192.0		
Unconditioned floor area (m2)	24.0		
Total area of garden and lawn (m2)	143		

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	
Project score		
Water	✓ 44	Target 40
•	✓ 44 ✓ Pass	Target 40 Target Pass

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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 3 star (> 6 but <= 7.5 L/min) in all showers in the development.		~	V
The applicant must install a toilet flushing system with a minimum rating of 3 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 3 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 3000 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 100 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	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	~	V

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground, 107 square metres	nil	
floor - above habitable rooms or mezzanine, 109 square metres, framed	nil	
floor - suspended floor above garage, 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)	
internal wall shared with garage - plasterboard	nil	
ceiling and roof - flat ceiling / pitched roof	ceiling: 3.5 (up), roof: foil/sarking	unventilated; 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.	~	~	-
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
North facing					
1	1800	970	aluminium, single, clear	none	not overshadowed
2	700	1450	aluminium, single, clear	none	not overshadowed
3	700	3000	aluminium, single, clear	none	not overshadowed
4	600	2410	aluminium, single, clear	none	not overshadowed
11	1200	2400	aluminium, single, clear	eave 600 mm, 0 mm above head of window or glazed door	not overshadowed
East facing					
5	1800	2040	aluminium, single, clear	eave 3900 mm, 0 mm above head of window or glazed door	not overshadowed
6	2400	4200	aluminium, single, clear	eave 3900 mm, 0 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
12	1200	1810	aluminium, single, clear	eave 600 mm, 0 mm above head of window or glazed door	not overshadowed
13	1200	1810	aluminium, single, clear	eave 600 mm, 0 mm above head of window or glazed door	not overshadowed
South facing					
7	1000	850	aluminium, single, clear	none	not overshadowed
8	1200	1810	aluminium, single, clear	none	not overshadowed
14	1000	1450	aluminium, single, clear	eave 600 mm, 0 mm above head of window or glazed door	not overshadowed
15	1200	1810	aluminium, single, clear	eave 600 mm, 0 mm above head of window or glazed door	not overshadowed
West facing		,			
9	2100	3580	aluminium, single, clear	eave 2050 mm, 0 mm above head of window or glazed door	not overshadowed
10	1500	1570	aluminium, single, clear	eave 600 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: gas instantaneous with a performance of 6 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: 3-phase airconditioning; Energy rating: EER 2.5 - 3.0		→	V
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 2.5 - 3.0		y	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: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		→	V
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		•	V
The heating system must provide for day/night zoning between living areas and bedrooms.		•	>
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, not ducted; Operation control: manual switch on/off		→	V
Kitchen: individual fan, not ducted; Operation control: manual switch on/off		✓	~
Laundry: natural ventilation only, or no laundry; Operation control: n/a		•	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 5 of the bedrooms / study; dedicated		_	

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least 3 of the living / dining rooms; dedicated		~	~
the kitchen; dedicated		✓	V
all bathrooms/toilets; dedicated		~	V
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 1 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	V
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		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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