

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

Single Dwelling

Certificate number: 1406983S

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, 13 July 2023

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



Project summary			
Project name	Secondary Dwelling - 13 wales st, Greenacre		
Street address	13 Wales Street Greenacre 2190		
Local Government Area	Canterbury-Bankstown Council		
Plan type and plan number	deposited 13421		
Lot no.	159		
Section no.	-		
Project type	separate dwelling house - secondary dwelling		
No. of bedrooms	2		
Project score			
Water	✓ 48 Target 40		
Thermal Comfort	✓ Pass Target Pass		
Energy	✓ 52 Target 50		

Certificate Prepared by
Name / Company Name: Ibrahim Makkawi
ABN (if applicable): N/A

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Description of project

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Project address	
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Plan type and plan number	Deposited Plan 13421
Lot no.	159
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Project type	
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No. of bedrooms	2
Site details	
Site area (m²)	519
Roof area (m²)	98
Conditioned floor area (m2)	49.0
Unconditioned floor area (m2)	6.0
Total area of garden and lawn (m2)	100
Roof area (m2) of the existing dwelling	220
No. of bedrooms in the existing dwelling	5

Assessor details and thermal lo	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	✓ 48	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 52	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 3 star (> 4.5 but <= 6 L/min) 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.		V	~
The applicant must install taps with a minimum rating of 3 star in the kitchen in the development.		V	
The applicant must install basin taps with a minimum rating of 3 star in each bathroom in the development.		V	
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.	V	~	~
The applicant must configure the rainwater tank to collect rain runoff from at least 80 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		~	•
the cold water tap that supplies each clothes washer in the development		V	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.) 		~	-
Hot water recirculation or diversion system			·
The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the development.		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	V
The dwelling must not contain open mezzanine area exceeding 25 square metres.	V	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	nil	
external wall - brick veneer	2.86 (or 3.40 including construction)	
ceiling and roof - flat ceiling / pitched roof	ceiling: 4.5 (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:		~	~			
• For the following glass and frame types, the certifier check can be performed by visual inspection.			V			
- 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			

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North facing					
W09	800	2000	aluminium, single, clear	eave 450 mm, 150 mm above head of window or glazed door	not overshadowed
East facing					
W01	800	2400	aluminium, single, clear	solid overhang 4050 mm, 150 mm above head of window or glazed door	2-4 m high, 5-8 m away
W02	1800	600	aluminium, single, clear	solid overhang 4050 mm, 150 mm above head of window or glazed door	2-4 m high, 5-8 m away
W03	1800	600	aluminium, single, clear	solid overhang 1350 mm, 150 mm above head of window or glazed door	2-4 m high, 5-8 m away

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W04	800	2000	aluminium, single, clear	eave 450 mm, 150 mm above head of window or glazed door	2-4 m high, 5-8 m away
South facing					
W05	800	2000	aluminium, single, clear	eave 450 mm, 150 mm above head of window or glazed door	not overshadowed
W06	600	600	aluminium, single, clear	eave 450 mm, 150 mm above head of window or glazed door	not overshadowed
West facing					
W07	800	2000	aluminium, single, clear	eave 450 mm, 150 mm above head of window or glazed door	not overshadowed
W08	800	2400	aluminium, single, clear	eave 450 mm, 150 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 3 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: 3 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: 3 star (average zone)		~	~
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: 3 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: 3 star (average zone)		~	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, not ducted; Operation control: manual switch on/off		✓	-
Laundry: natural ventilation only, or no laundry; Operation control: n/a		✓	~
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 2 of the bedrooms / study; dedicated		~	-
at least 1 of the living / dining rooms; dedicated		✓	V
the kitchen; dedicated			

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
all bathrooms/toilets; dedicated		~	~
the laundry; dedicated		~	V
all hallways; dedicated		V	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.	•	•	>
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.		y	
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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