

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

Single Dwelling

Certificate number: 1329256S

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: Tuesday, 09 August 2022

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



Project summary				
Project name	17 Illawong Crescent duplex			
Street address	17 illawong Crescent greenacre 2190			
Local Government Area	Canterbury-Bankstown Council			
Plan type and plan number	deposited 31054			
Lot no.	6			
Section no.	-			
Project type	separate dwelling house			
No. of bedrooms	4			
Project score				
Water	✓ 43 Target 40			
Thermal Comfort	✓ Pass Target Pass			
Energy	✓ 54 Target 50			

Certificate Prepared by
Name / Company Name: msconsult
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Description of project

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Project address			
Project name	17 Illawong Crescent duplex		
Street address	17 illawong Crescent greenacre 2190		
Local Government Area	Canterbury-Bankstown Council		
Plan type and plan number	Deposited Plan 31054		
Lot no.	6		
Section no.	-		
Project type			
Project type	separate dwelling house		
No. of bedrooms	4		
Site details			
Site area (m²)	400		
Roof area (m²)	155		
Conditioned floor area (m2)	170.0		
Unconditioned floor area (m2)	30.0		
Total area of garden and lawn (m2)	77		

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	√ 43 Target 40						
Thermal Comfort	✓ Pass Target Pass						
Energy	√ 54 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 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.		~	
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.	~	~	~
The applicant must configure the rainwater tank to collect rain runoff from at least 155 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:			
all toilets in the development		~	~
the cold water tap that supplies each clothes washer in the development		~	~
 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.) 		~	~
Swimming pool			
The swimming pool must not have a volume greater than 30 kilolitres.	~	~	
The swimming pool must have a pool cover.		~	

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Water Commitments		Show on CC/CDC plans & specs	Certifier check
The swimming pool must be shaded.	~	V	
The swimming pool must be outdoors.	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
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	nil	
floor - suspended floor above garage, concrete	nil	
external wall - cavity brick	0.50 (or 1.17 including construction)	
internal wall shared with garage - single skin masonry	nil	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 3.5 (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	
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					
W04	1200	800	aluminium, single, clear	solid overhang 2000 mm, 350 mm above head of window or glazed door	not overshadowed
W06	1200	800	aluminium, single, clear	solid overhang 2000 mm, 350 mm above head of window or glazed door	not overshadowed
W01	800	2000	aluminium, single, clear	solid overhang 2000 mm, 350 mm above head of window or glazed door	not overshadowed
W03	800	2000	aluminium, single, clear	solid overhang 2000 mm, 350 mm above head of window or glazed door	not overshadowed
East facing					
W19	2200	1200	aluminium, single, clear	none	not overshadowed

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W15	600	2500	aluminium, single, clear	none	not overshadowed
W20	2200	1200	aluminium, single, clear	none	not overshadowed
W14	600	2500	aluminium, single, clear	none	not overshadowed
South facing					
W19	1200	1500	aluminium, single, clear	solid overhang 2000 mm, 350 mm above head of window or glazed door	not overshadowed
W20	1200	600	aluminium, single, clear	solid overhang 2000 mm, 350 mm above head of window or glazed door	not overshadowed
W16	1200	800	aluminium, single, clear	solid overhang 2000 mm, 350 mm above head of window or glazed door	not overshadowed
W18	1200	2200	aluminium, single, clear	solid overhang 2000 mm, 350 mm above head of window or glazed door	not overshadowed
W17	1200	1500	aluminium, single, clear	solid overhang 2000 mm, 350 mm above head of window or glazed door	not overshadowed
West facing					
W28	600	2500	aluminium, double (air), clear	none	not overshadowed
W24	600	3000	aluminium, double (air), clear	none	not overshadowed
W27	2000	600	aluminium, double (air), clear	none	not overshadowed
W21	600	2500	aluminium, double (air), clear	none	not overshadowed
W23	600	3000	aluminium, double (air), clear	none	not overshadowed
W22	600	2500	aluminium, double (air), clear	none	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	~	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: airconditioning ducting only; Energy rating: n/a		~	~
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: gas fixed flued heater; Energy rating: 5 Star		~	V
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: gas fixed flued heater; Energy rating: 5 Star		~	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		~	V
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		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;		V	-
• at least 3 of the living / dining rooms;		•	V
• the kitchen;		.	

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
all bathrooms/toilets;		~	V
Natural lighting	<u>'</u>		
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	V	~	V
The applicant must install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	V
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		~	
The applicant must install a timer for the swimming pool pump in the development.		~	
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 0.5 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	V	~	V
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.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		~	
The applicant must install a fixed indoor or sheltered 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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