

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

Single Dwelling

Certificate number: 1274161S 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: Wednesday, 29 June 2022

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



Project summary				
Project name	D2_22 Collins Cres,	Yagoona_02		
Street address	22 Collins Crescent	Yagoona 2199		
Local Government Area	Canterbury-Banksto	wn Council		
Plan type and plan number	deposited 30221			
Lot no.	12			
Section no.	-			
Project type	attached dwelling ho	attached dwelling house		
No. of bedrooms	5			
Project score				
Water	✓ 45	Target 40		
Thermal Comfort	✓ Pass	Target Pass		
Energy	✓ 54	Target 50		

Certificate Prepared by

Name / Company Name: Concetto Design & Associates

ABN (if applicable): 81232070821

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Description of project

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Project address	
Project name	D2_22 Collins Cres, Yagoona_02
Street address	22 Collins Crescent Yagoona 2199
Local Government Area	Canterbury-Bankstown Council
Plan type and plan number	Deposited Plan 30221
Lot no.	12
Section no.	-
Project type	
Project type	attached dwelling house
No. of bedrooms	5
Site details	
Site area (m²)	488
Roof area (m²)	160
Conditioned floor area (m2)	184.0
Unconditioned floor area (m2)	18.5
Total area of garden and lawn (m2)	250

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	✓ 45	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 (> 6 but <= 7.5 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 6 star in each toilet in the development.		~	V
The applicant must install taps with a minimum rating of 6 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 6 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 1500 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 160 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		✓	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.) 		~	~

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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	-
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.	V	-	V

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground, 116 square metres	nil	
floor - above habitable rooms or mezzanine, 67.5 square metres, other/undecided	nil	
floor - suspended floor above garage, other/undecided	nil	
external wall - other/undecided	2.40 (including construction)	
internal wall shared with garage - other/undecided	nil	
ceiling and roof - flat ceiling / flat roof, framed	ceiling: 4.5 (up), roof: none	framed; 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.	~	~	V
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	V	~	V
The following requirements must also be satisfied in relation to each window and glazed door:	~	~	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			
• For other glass or frame types, each window and glazed door must be accompanied with certification showing a U value no greater than that listed and a Solar Heat Gain Coefficient (SHGC) within the range of those listed. Total system U values and SHGC must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. Frame and glass types shown in the table below are for reference only.			~
• Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	V
 Unless they have adjustable shading, pergolas must have fixed battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not exceed the height of the battens. 		~	~
 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
East facing					
W07	2400	5410	U-value: 4.3, SHGC: 0.477 - 0.583 (aluminium, double (air), Hi-Tsol Low-e/clear)	pergola (fixed battens) 3650 mm, 200 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
W07.1	515	5410	U-value: 4.3, SHGC: 0.477 - 0.583 (aluminium, double (air), Hi-Tsol Low-e/clear)	none	not overshadowed
W17	2400	5410	U-value: 4.3, SHGC: 0.477 - 0.583 (aluminium, double (air), Hi-Tsol Low-e/clear)	solid overhang 2180 mm, 250 mm above head of window or glazed door	not overshadowed
W15	2400	3610	U-value: 4.3, SHGC: 0.477 - 0.583 (aluminium, double (air), Hi-Tsol Low-e/clear)	solid overhang 1500 mm, 250 mm above head of window or glazed door	not overshadowed
South facing					
W14	600	1810	aluminium, single, clear	none	not overshadowed
W03	600	850	aluminium, single, clear	none	1-2 m high, <1.5 m away
W02	1030	1810	aluminium, single, clear	none	1-2 m high, <1.5 m away
W10	600	1810	aluminium, single, clear	none	not overshadowed
W12	600	610	aluminium, single, clear	none	not overshadowed
W04	515	1570	aluminium, single, clear	none	1-2 m high, <1.5 m away
W05	515	2140	aluminium, single, clear	none	1-2 m high, <1.5 m away
W11	600	610	aluminium, single, clear	none	not overshadowed
W13	1030	1450	aluminium, single, clear	none	not overshadowed
W06	515	3010	aluminium, single, clear	none	1-2 m high, <1.5 m away
West facing					
W01	2400	850	aluminium, single, clear	solid overhang 2240 mm, 250 mm above head of window or glazed door	not overshadowed
W09	2400	2410	U-value: 4.3, SHGC: 0.477 - 0.583 (aluminium, double (air), Hi-Tsol Low-e/clear)	solid overhang 1700 mm, 250 mm above head of window or glazed door	not overshadowed
W08	2400	2410	U-value: 4.3, SHGC: 0.477 - 0.583 (aluminium, double (air), Hi-Tsol Low-e/clear)	solid overhang 1700 mm, 250 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.	~	✓	~
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 > 4.0		→	~
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 > 4.0		✓	•
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 > 4.0		→	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 > 4.0		~	V
The heating system must provide for day/night zoning between living areas and bedrooms.		<u> </u>	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		→	•
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; 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		V	~
• the kitchen; dedicated		V	V
all bathrooms/toilets; dedicated		~	V
the laundry; dedicated		•	V
all hallways; dedicated		✓	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 5 bathroom(s)/toilet(s) in the development for natural lighting.		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.			

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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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