

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

Single Dwelling

Certificate number: 1313790S

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, 28 June 2022

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



Project summary	
Project name	Phillip - Davies Rd D1
Street address	14 Davies Road Padstow 2211
Local Government Area	Canterbury-Bankstown Council
Plan type and plan number	deposited 660646
Lot no.	31
Section no.	-
Project type	attached dwelling house
No. of bedrooms	5
Project score	
Water	✓ 43 Target 40
Thermal Comfort	✓ Pass Target Pass
Energy	✓ 51 Target 50

Certificate Prepared	by
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Name / Company Name: d-b-b designers & builders

ABN (if applicable): 23695598925

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Description of project

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Project address	
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Local Government Area	Canterbury-Bankstown Council
Plan type and plan number	Deposited Plan 660646
Lot no.	31
Section no.	-
Project type	
Project type	attached dwelling house
No. of bedrooms	5
Site details	
Site area (m²)	317
Roof area (m²)	152
Conditioned floor area (m2)	143.8
Unconditioned floor area (m2)	6.5
Total area of garden and lawn (m2)	118

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	✓ 43	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	√ 51	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
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 3 star in each toilet in the development.		~	~
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.		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.	~	~	~
The applicant must configure the rainwater tank to collect rain runoff from at least 152.2 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		~	-
 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	V	V
The dwelling must not contain third level habitable attic room.	V	~	
Floor, walls and ceiling/roof		1	
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, 91.6 square metres	nil	
floor - above habitable rooms or mezzanine, 24.78 square metres, framed	nil	
floor - suspended floor above garage, framed	nil	
external wall - brick veneer	2.86 (or 3.40 including construction)	
internal wall shared with garage - plasterboard	nil	
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.	~	•	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.			V
- 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.			~
• 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	•	V
The applicant must install the skylights described in the table below, in accordance with the specifications listed in the table. Total skylight area must not exceed 3 square metres (the 3 square metre limit does not include the optional additional skylight of less than 0.7 square metres that does not have to be listed in the table).	~	~	•

Skylight no.	Maximum area (square metres)	Туре	Shading device
S01	0.36	timber, double clear/air fill	no shading

Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
North-East facing					

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W02 Lounge	2400	910	aluminium, single, clear	solid overhang 1200 mm, 810 mm above head of window or glazed door	not overshadowed
W01 Bed 4	2400	910	aluminium, single, clear	verandah 1200 mm, 1745 mm above base of window or glazed door	not overshadowed
Door1 Bed 3	2400	1500	aluminium, single, clear	verandah 1200 mm, 2495 mm above base of window or glazed door	not overshadowed
Door2 Bed 2	2400	2700	aluminium, single, clear	verandah 1920 mm, 2495 mm above base of window or glazed door	not overshadowed
South-East facing		·			
W04 Family	600	2410	aluminium, single, clear	none	2-4 m high, 2 m away
W04 Void ovr Fam	600	2410	aluminium, single, clear	none	2-4 m high, 2 m away
South-West facing		·			·
D1 Door Din/Fam.	2400	4000	aluminium, single, clear	verandah 4000 mm, 2640 mm above base of window or glazed door	not overshadowed
W03 Ensuite	600	1810	U-value: 6.6, SHGC: 0.441 - 0.539 (aluminium, single, tint)	eave 580 mm, 343 mm above head of window or glazed door	not overshadowed
W02 Bed 1	600	2110	aluminium, single, clear	eave 580 mm, 343 mm above head of window or glazed door	not overshadowed
W05 Void Ovr Fam	600	4010	aluminium, single, clear	eave 580 mm, 343 mm above head of window or glazed door	not overshadowed
North-West facing					
W01 Dining	600	2410	aluminium, single, clear	none	2-4 m high, 2 m away
W04 Kitchen	600	2410	aluminium, single, clear	none	2-4 m high, 2 m away
W03 Guest	600	2110	aluminium, single, clear	none	2-4 m high, 2 m away
W03 Garage	600	2110	aluminium, single, clear	none	2-4 m high, 2 m away
W04 Void ovr Din	600	2410	aluminium, single, clear	none	2-4 m high, 2-5 m away
W02 Bed 4	600	2110	aluminium, single, clear	eave 580 mm, 343 mm above head of window or glazed door	2-4 m high, 2-5 m away

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Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing
W07 Bath	1000	1510	U-value: 6.6, SHGC: 0.441 - 0.539 (aluminium, single, tint)	eave 580 mm, 343 mm above head of window or glazed door	2-4 m high, 2-5 m away
W08 Ensuite	600	910	U-value: 6.6, SHGC: 0.441 - 0.539 (aluminium, single, tint)	eave 580 mm, 343 mm above head of window or glazed door	2-4 m high, 2-5 m away
W02 Bed 2	600	2110	aluminium, single, clear	eave 580 mm, 343 mm above head of window or glazed door	2-4 m high, 2-5 m away

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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 4 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: 7 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: 7 star (average zone)		~	~
The cooling system must provide for day/night zoning between living areas and bedrooms.		✓	-
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: 7 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: 7 star (average zone)		y	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, 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		~	-
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 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 2 of the living / dining rooms; dedicated		~	V
the kitchen; dedicated		~	V
all bathrooms/toilets; dedicated		~	V
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 2 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.		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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