

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

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Project summary				
Project name	Cottage			
Street address	118 HARCOURT CLOSE SUTTON	l 2620		
Local Government Area	Yass Valley Council			
Plan type and plan number	Deposited Plan			
Lot no.	63			
Section no.	-			
Project type	dwelling house (detached)			
No. of bedrooms	3			
Project score				
Water	90	Target 40		
Thermal Performance	Pass	Target Pass		
Energy	70	Target 63		
Materials	-31	Target n/a		

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Description of project

Project address	
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Local Government Area	Yass Valley Council
Plan type and plan number	Deposited Plan
Lot no.	63
Section no.	-
Project type	
Project type	dwelling house (detached)
No. of bedrooms	3
Site details	
Site area (m²)	13086
Roof area (m²)	217
Conditioned floor area (m²)	150.0
Unconditioned floor area (m²)	19.88
Total area of garden and lawn (m²)	222
Roof area of the existing dwelling (m²)	0

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					
Project score						
Water	90	Target 40				
Thermal Performance	Pass	Target Pass				
Energy	70	Target 63				
Materials	-31	Target n/a				

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.

ater Commitments		Show on CC/CDC plans & specs	Certifier check
Landscape			
The applicant must plant indigenous or low water use species of vegetation throughout 111 square metres of the site.	~	~	
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 60000 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 222 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		-	~

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
 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.) 		>	~
all hot water systems in the development		_	V
all indoor cold water taps (not including taps that supply clothes washers) in the development		~	V

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Thermal Performance and Materials commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Do-it-yourself Method			
General features			
The dwelling must be a Class 1 dwelling according to the National Construction Code, and must not have more than 2 storeys.	~	~	~
The conditioned floor area of the dwelling must not exceed 300 square metres.	~	~	~
The dwelling must not contain open mezzanine area exceeding 25 square metres.	~	~	~
The dwelling must not contain third level habitable attic room.	~	~	~
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.	~	~	~
The applicant must adopt one of the options listed in the tables below to address thermal bridging in metal framed floor(s), walls and ceiling/roof of the dwelling.	~	~	~
The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the tables below.			~

Construction	Area - m²	Additional insulation required	Options to address thermal bridging	Other specifications
floor - concrete slab on ground, waffle pod slab.	169.88	nil;not specified	nil	
garage floor - concrete slab on ground.	47.09	none	nil	

Construction	Area - m²	Additional insulation required	Options to address thermal bridging	Other specifications
external wall: brick veneer; frame: light steel frame.	22	3.44 (or 4.00 including construction) with one of the measures to address thermal bridging;fibreglass batts or roll + reflective foil in the cavity	onstruction) with one of the frame to create a minimum 20 mm reflective airspace between frame and veneer, or • Install	
external wall: framed (fibre cement sheet or boards); frame: light steel frame.	33	3.50 (or 4.00 including construction) with one of the measures to address thermal bridging;fibreglass batts or roll + reflective foil in the cavity	Install reflective foil outside the frame to create a minimum 20 mm reflective airspace between frame and veneer, or • Install continuous insulation layer with at least R0.3 on the inside or outside of the frame	wall colour: Medium (solar absorptance 0.48-0.7)
internal wall shared with garage: plasterboard; frame: light steel frame.	11	1.08 (or 1.50 including construction);fibreglass batts or roll	nil	
internal wall: plasterboard; frame: light steel frame.	33	fibreglass batts or roll	nil	
ceiling and roof - flat ceiling / pitched roof, framed - metal roof, light steel frame.	216.97	ceiling: 5.5 (up), roof: foil backed blanket with one of the measures to address thermal bridging;ceiling: fibreglass batts or roll; roof: foil backed blanket.	• Install additional R0.5 (up) (or R6 (up) including the additional insulation), or • Install continuous ceiling insulation layer with at least R0.13 above or below the ceiling joists or the bottom chords of the trusses, or • Install two layers of insulation immediately on top of each other, with the top layer of at least R0.5 oriented to cover the ceiling joists or bottom chords of the trusses	roof space ventilation: unventilated; roof colour: medium (solar absorptance 0.48-0.59); ceiling area fully insulated

Note	Insulation specified in this Certificate must be installed in accordance with the ABCB Housing Provisions (Part 13.2.2) of the National Construction Code.
Note	If the additional ceiling insulation listed in the table above is greater than R3.0, refer to the ABCB Housing Provisions (Part 13.2.3 (6)) of the National Construction Code.
Note	In some climate zones, insulation should be installed with due consideration of condensation and associated interaction with adjoining building materials.
Note	Thermal breaks must be installed in metal framed walls and applicable roofs in accordance with the ABCB Housing Provisions of the National Construction Code.

Thermal Performance and Materials commitments	Show on CC/CDC plans & specs		Certifier check	
Glazed windows, 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 glazed window and 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:	~	~	~	
• The applicant must install windows and glazed doors in accordance with the height and width, frame and glazing types listed in the table.	~	V	~	
• Each window and glazed door must have a U- value no greater than that listed and a Solar Heat Gain Coefficient (SHGC) within the range listed. Total system U values and SHGC must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.		~	~	
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).	~	~	~	

Glazed window/door no.	Orientation	Maximum height (mm)	Maximum width (mm)	Frame and glass specification	Shading device (Dimension within 10%)	Overshadowing
W01	N	2400.00	3000.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed
W02	N	2400.00	900.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed
W03	N	2400.00	3000.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed
W04	N	2400.00	3000.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed

Glazed window/door no.	Orientation	Maximum height (mm)	Maximum width (mm)	Frame and glass specification	Shading device (Dimension within 10%)	Overshadowing
W05	N	2400.00	1200.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed
W06	E	2400.00	1020.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed
W07	S	2400.00	820.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed
W08	S	2100.00	2700.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed
W09	S	1200.00	600.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed
W10	S	1200.00	1500.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed
W11	W	1200.00	2700.00	aluminium, double glazed (U-value: <=3, SHGC: >0.6)	eave 450 mm, 250 mm above head of window or glazed door	not overshadowed

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: electric heat pump with a performance of 26 to 30 STCs or better.	~	~	~
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		>	~
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		~	~
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		~	~
Ventilation			
The applicant must install the following exhaust systems in the development:			1
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		~	~
Laundry: natural ventilation only, or no laundry; Operation control: n/a		~	~
Artificial lighting			
The applicant must ensure that a minimum of 80% of light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		~	V
Natural lighting			
The applicant must install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	V

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Other			
The applicant must install an induction cooktop & electric oven in the kitchen of the dwelling.		~	
The applicant must install a fixed outdoor clothes drying line as part of the development.		~	

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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