BASIX°Certificate

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

Single Dwelling

Certificate number: 520177S

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 29/06/2009 published by the Department of Planning. This document is available at www.basix.nsw.gov.au

Director-General
Date of issue: Friday, 13 December 2013
To be valid, this certificate must be lodged within 3 months of the date of issue.





Project summary			
Project name	PYR437 Camilleri -	New Dwelling	
Street address	169 Church Street Castlereagh 2749		
Local Government Area	Penrith City Council		
Plan type and plan number	deposited 227370		
Lot no.	8		
Section no.	The state of the s	and the second second	
Project type	separate dwelling h	nouse	
No. of bedrooms	5		
Project score			
Water	✓ 40	Target 40	
Thermal Comfort	✓ Pass	Target Pass	
Energy	√ 40	Target 40	

This plan/document relates to:
Development Application

No: 13149 0



(COUNCIL DOES NOT ATTEST TO THE

Certificate Prepared by

Name / Company Name: Pyramid design & drafting

ABN (if applicable): 77533499726

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Version: 6.26 / CASUARINA_2_20_1

Certificate No.: 520177S

Friday, 13 December 2013

page 1/9

Description of project

Project address	
Project name	PYR437 Camilleri - New Dwelling
Street address	169 Church Street Castlereagh 2749
Local Government Area	Penrith City Council
Plan type and plan number	Deposited Plan 227370
Lot no.	8
Section no.	
Project type	李建立 在1991年1991年1991年1991
Project type	separate dwelling house
No. of bedrooms	5
Site details	
Site area (m²)	20270
Roof area (m²)	610
Conditioned floor area (m2)	357
Unconditioned floor area (m2)	27
Total area of garden and lawn (m2)	200

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✓ Pass	Target Pass
✓ 40	Target 40
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Version: 6.26 / CASUARINA_2_20_1

Certificate No.: 520177S

Friday, 13 December 2013

page 2/

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 (> 7.5 but <= 9 L/min) in all showers in the development.		,	1
The applicant must install a toilet flushing system with a minimum rating of 3 star in each toilet in the development.		/	1
The applicant must install taps with a minimum rating of 3 star in the kitchen in the development.		1	
The applicant must install basin taps with a minimum rating of 3 star in each bathroom in the development.		V 400000	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 2500 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	1	1	1
The applicant must configure the rainwater tank to collect rain runoff from at least 225 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		1	1
The applicant must connect the rainwater tank to:			
all toilets in the development		1	1
the cold water tap that supplies each clothes washer in the development		1	1
at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human		,	,

BASIX

Department of Planning

www.basix.nsw.gov.au

Version: 6.26 / CASUARINA_2_20_1

Certificate No.: 520177S

Friday, 13 December 2013

page 3/9

Thermal Comfort Commitments Show on DA plans Show on CC/CDC plans & specs Certifier check 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	
external wall - brick veneer	1.66 (or 2.20 including construction)	自然的自然是一个人的人们的自己的自己的 。
internal wall shared with garage - plasterboard	nil	
ceiling and roof - flat ceiling / pitched roof	ceiling: 1.95 (up), roof: foil backed blanket (55mm)	unventilated; dark (solar absorptance > 0.70)
ceiling and roof - raked ceiling / pitched or skillion roof, framed	ceiling: 2.24 (up), roof: foil backed blanket (55mm)	framed; dark (solar absorptance > 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.

BASIX

Department of Planning

www.basix.nsw.gov.au

Version: 6.26 / CASUARINA_2_20_1

Certificate No.: 520177S

Friday, 13 December 2013

page 4/9

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.	1		1
The dwelling may have 1 skylight (<0.7 square metres) and up to 2 windows/glazed doors (<0.7 square metres) which are not listed in the table.	1	1	1
 Except where the glass is 'single clear' or 'single toned', each window and glazed door must have a U-value no greater than that listed and a Solar Heat Gain Coefficient (SHGC) +/-10% of that listed. Total system U-values and SHGC must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. 	1		1
 The leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 millimetres above the head of the window or glazed door, except that a projection greater than 500 mm and up to 1500 mm above the head must be twice the value in the table. 	1	1	1
 Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35. 		1	1
 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 be more than 50 mm. 		1	1

Window/glazed door no.	Orientation	Maximum area (square metres)	Туре	Shading	Overshadowing
W1, W2, W6, W7	SE	15.84	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	none	not overshadowed
W3, W5	SE	7.2	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 751-900 mm	not overshadowed
D4	SE	2.77	timber or uPVC, single clear (or U-value:5.71, SHGC:0.66)	eave/verandah/pergola/balcony 1,500-2,000 mm	not overshadowed
W8, W9, W10, W11, W1 2, W13, W14, W15	sw	4.56	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 451-600 mm	not overshadowed
W16, W17, W24, W28	NW	14.9	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 451-600 mm	not overshadowed
D18 *	NE	7.2	improved aluminium, single clear (U-value:6,44, SHGC:0.75)	eave/verandah/pergola/balcony >2,000 mm	not overshadowed

BASIX

Department of Planning

www.basix.nsw.gov.au

Version: 6.26 / CASUARINA_2_20_1

Certificate No.: 520177S

Friday, 13 December 2013

page 5/9

Document Set ID: 6088422 Version: 1, Version Date: 12/08/2014

Window/glazed door no.	Orientation	Maximum area (square metres)	Туре	Shading	Overshadowing
D19	NW	11.52	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony >2,000 mm	not overshadowed
W20, W21, W22	NW	1.08	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony >2,000 mm	not overshadowed
D23	sw	7.2	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony >2,000 mm	not overshadowed
W25	NE	0.36	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 451-600 mm	not overshadowed
W26	NE	0.36	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	none	not overshadowed
W27	NE	0.36	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	none	not overshadowed
W28	NW	1.7	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 451-600 mm	not overshadowed
D29	NW	3.8	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 1,500-2,000 mm	not overshadowed

BASIX I

Department of Planning

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Version: 6.26 / CASUARINA_2_20_1

Certificate No.: 5201778

Friday, 13 December 2013

page 6/9

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifie check
Hot water			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: solar (electric poosted) with a performance of 31 to 35 RECs or better.	1	/	1
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 2.5 - 3.0		1	1
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: ceiling fans + 3-phase airconditioning; Energy rating: EER 2.5 - 3.0			1
The cooling system must provide for day/night zoning between living areas and bedrooms.		1	1
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 3.0 - 3.5		J	1
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 3.0 - 3.5		1	1
The heating system must provide for day/night zoning between living areas and bedrooms.		1	1
Ventilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, not ducted; Operation control: manual switch on/off		1	1
Kitchen: individual fan, not ducted; Operation control: manual switch on/off			72
Laundry: natural ventilation only, or no laundry; Operation control: n/a		1	1
caulary, natural venturation only, or no radically, operation control. Ita	il titus settadali	I de salatite i alle	1
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			

BASIX

Department of Planning

www.basix.nsw.gov.au

Version: 6.26 / CASUARINA_2_20_1

Certificate No.: 520177S

Friday, 13 December 2013

page 7/9

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
at least 4 of the living / dining rooms; dedicated		/	1
the kitchen; dedicated	100	1	1
all bathrooms/toilets; dedicated			1
the laundry; dedicated			1
all hallways; dedicated		/	1
Natural lighting			
The applicant must install a window and/or skylight in 2 bathroom(s)/toilet(s) in the development for natural lighting.	1		1
Other State of the			
The applicant must install a fixed outdoor clothes drying line as part of the development.		1	

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Department of Planning

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Version: 6.26 / CASUARINA_2_20_1

Certificate No.: 520177S

Friday, 13 December 2013

page 8/9

Document Set ID: 6088422 Version: 4, Version Date: 12/08/2014

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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Version: 6.26 / CASUARINA_2_20_1

Certificate No.: 520177S

Friday, 13 December 2013

page 9/9