BASIX°Certificate

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

Single Dwelling

Certificate number: 512550S

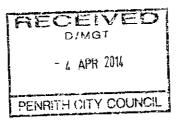
This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" 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: Wednesday, 30 October 2013

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





Project summary			
Project name	20130198_AI_LOt	2308 Patanga	
Street address	na Patanga Crescent Jordan Springs 2747		
Local Government Area	Penrith City Counc	il	
Plan type and plan number	deposited na		
Lot no.	2308	, <u>, , , , , , , , , , , , , , , , , , </u>	
Section no.	-		
Project type	separate dwelling h	iouse	
No. of bedrooms	4		
Project score			
Water	√ 41	Target 40	
Thermal Comfort	✓ Pass	Target Pass	
Energy	√ 40	Target 40	

Certificate Prepared by	
Name / Company Name: arcINOVATIONZ Pty Ltd	
ABN (if applicable): 15 208 786 513	

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Description of project

Project name	20130198_AI_LOt 2308 Palanga
Street address	na Patanga Crescent Jordan Springs 274
Local Government Area	Penrith City Council
Plan type and plan number	Deposited Plan na
Lot no.	2308
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	4
Site details	
Site area (m²)	405
Roof area (m²)	311
Conditioned floor area (m2)	149
Unconditioned floor area (m2)	18
Total area of garden and lawn (m2)	122

Assessor details and thermal l	oads	
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	
Other		
none	n/a	
Project score		
Water	√ 41	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	√ 40	Target 40

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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 3 star (> 4.5 but <= 6 L/min) in all showers in the development.			
		1	1
The applicant must install a toilet flushing system with a minimum rating of 3 star in each toilet in the development.			<u> </u>
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.			<u> </u>
		1	
Alternative water	A. San Carlotte		AN AP AP
Alternative water Rainwater tank	Angelia de la companya de la company		24
Rainwater tank The applicant must install a rainwater tank of at least 1500 litres on the site. This rainwater tank must most and be resulted.			
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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC	Certifier
Floor, wells வர் ediling/roof		plans & specs	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.	1	✓	1

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)	
internal wall shared with garage - plasterboard	nil	
ceiling and roof - flat ceiling / pitched roof	ceiling: 3 (up), roof: foil/sarking	unventilated; 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.

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Windows, glazed doors and skylights		affect of the second of the se	· · · · · ·
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	✓	V
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
The following requirements must also be satisfied in relation to each window and glazed door:	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. 			~
 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 (Mbed & Bed 2)	W	3.24	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed
SD Alfresco	W	5.67	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony >2,000 mm	not overshadowed
W3, W4 & W5 (Family, Dining, Kitchen)	N	3.36	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed
SD Ldry	N	3.15	improved aluminium, single clear (U-value:6.44, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed
W7,W8 & W9(Living)	E	3.24	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed
W10 (Bed4)	S	2.16	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed

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Window/glazed door no.	Orientation	Maximum area (square metres)	Туре	Shading	Overshadowing
W11(Bath)	S	0.54	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed
W12(Bed 3)	S	2.16	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed
W13(Media)	S	1.08	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed
W14(Ens)	S	0.54	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	not overshadowed
W15 & W16(M bed)	S	2.16	standard aluminium, single clear (or U-value:7.63, SHGC:0.75)	eave/verandah/pergola/balcony 450 mm	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: gas instantaneous with a performance of 4.5 stars.	1	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: 1-phase airconditioning; Energy rating: EER < 2.5		✓	7
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: EER < 2.5		1	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: 1-phase airconditioning; Energy rating: EER < 2.5		1	1
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: EER < 2.5		1	1
The heating system must provide for day/night zoning between living areas and bedrooms.		1	1
Ventilation			12.4.4.4
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		√	1
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off			
Laundry: individual fan, ducted to façade or roof; Operation control: manual switch on/off		y	1
Natural-lighting	<u>"" </u>		
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	1	1	/
The applicant must install a window and/or skylight in 2 bathroom(s)/toilet(s) in the development for natural lighting.	1	1	1
Other			T

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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		1	
The applicant must install a fixed outdoor clothes drying line as part of the development.		1	

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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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