BASIX[°]Certificate

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

Single Dwelling

Certificate number: 597263S_04

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 18/09/2014 published by Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

This certificate is a revision of certificate number 597263S_03 lodged with the consent authority or certifier on 08 October 2015 with application 15/0731.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environmental Planning and Assessment Regulation 2000

Director-General Date of issue: Tuesday, 16 February 2016 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary			
Project name	Bastac_04		
Street address	307-321 Cranebrook Road Cranebrook 2749		
Local Government Area	Penrith City Council		
Plan type and plan number	deposited 752021		
Lot no.	247		
Section no.	-		
Project type	separate dwelling house		
No. of bedrooms	5		
Project score			
Water	✓ 40 Target 40		
Thermal Comfort	V Pass Target Pass		
Energy	V 40 Target 40		

Certificate Prepared by

Name / Company Name: Abeaut Design Pty Ltd t/a Accurate Design and Draf

ABN (if applicable): 66116356551

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Certificate No.: 597263S 04

Description of project

Project address

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Street address	307-321 Cranebrook Road Cranebrook 2749
Local Government Area	Penrith City Council
Plan type and plan number	Deposited Plan 752021
Lot no.	247
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	5
Site details	
Site area (m²)	8201
Roof area (m ²)	355
Conditioned floor area (m2)	200.0
Unconditioned floor area (m2)	61.0
Total area of garden and lawn (m2)	500

Assessor details and thermal lo	bads	
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	40	Target 40
Thermal Comfort	🖌 Pass	Target Pass
Energy	V 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.		~	~
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.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 5000 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 250 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		•	

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Criteria			
The applicant must construct the dwelling in accordance with the following specifications:			
 the dwelling is a single storey dwelling; 	~	~	~
• the dwelling has a slab on ground floor or, if the floor is suspended, the floor has insulation with an R-value of at least R1.5;	~	~	~
 walls are brick veneer, weatherboard or fibre cement; 		~	~
 walls have insulation with an R-value of at least R2.0; 		~	~
all windows and glazed doors have eaves that project at least 600 millimetres (including gutter width);	~	 	~
 eaves are no more than 500 millimetres above window or glazed door heads; 	~	 	~
the total window and glazed door area is no more than 57.4 square metres;	~	 	~
 ceilings have insulation with an R-value of at least R3.0; 		 	~
 the roof has sarking or two wind-driven ventilators with eave and/or roof vents. 		~	-

Note Insulation specified in this Certificate must be installed in accordance with Part 3.12.1.1 of the Building Code of Australia.

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 - air sourced with a performance of 31 to 35 RECs 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 2.5 - 3.0		~	~
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 2.5 - 3.0		~	~
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 3.0 - 3.5		 	~
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		~	~
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		~	~
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		 Image: A set of the set of the	~
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; 		~	~

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Tuesday, 16 February 2016

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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; 		~	~
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	~	~	~
The applicant must install a window and/or skylight in 3 bathroom(s)/toilet(s) in the development for natural lighting.	~	~	~
Other			
The applicant must install a gas 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.