## **BASI** \*Certificate

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

## Single Dwelling

Certificate number: 473622S\_02

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: Monday, 21 October 2013

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





Accredited under the Nationwide House Energy Rating Scheme (NatHERS) Part A - Software BersPro V4.2 110811.

ABSA Accreditation No. 20856 BDAV Accreditation No. VIC/BDAV/12/1441 A.C.T COLA Lic. No. 2011291 www.frysenergywise.com.au



Project name	Brischetto 2006233_02		
Street address	62 Proposed No 3 Road Orchard Hills 274		
Local Government Area	Penrith City Council		
Plan type and plan number	deposited 209925		
Lot no.	62		
Section no.	-		
Project type	separate dwelling h	ouse	
No. of bedrooms	4		
Project score			
Water	✓ 41	Target 40	
Thermal Comfort	✓ Pass	Target Pass	
Energy	<b>√</b> 46	Target 40	

Certificate Prepared by			
Name / Company Name: Frys Energywise			
ABN (if applicable): 61012522051	-	_	

Certificate No., 473622S 02

Monday, 21 October 2013

Project name	Brischetto 2006233_02		
Street address	62 Proposed No 3 Road Orchard Hills 2748		
Local Government Area	Penrith City Council		
Plan type and plan number	Deposited Plan 209925		
Lot no.	62		
Section no.	1-		
Projecttype	, gran		
Project type	separate dwelling house		
No. of bedrooms	4		
Silederalis	34 \$ G		
Site area (m²)	500		
Roof area (m²)	297		
Conditioned floor area (m2)	163		
Unconditioned floor area (m2)	17		
Total area of garden and lawn (m2)	203		

Assessor number	BDAV/12/1441	
Certificate number	14410327	
Climate zone	28	
Area adjusted cooling load (MJ/m².year)	44	
Area adjusted heating load (MJ/m².year)	50	
Other ,		
none	n/a	
Project score		
Water	<b>√</b> 41	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	√ 46	Target 40

## **Schedule of BASIX commitments**

BASIX

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 st	ar (> 7.5 but <= 9 L/min) in all showers in the development.			
The applicant must install a toilet flushing system with a minimum rat	ing of 4 star in each toilet in the development.	4	<b>√</b>	11
The applicant must install taps with a minimum rating of 4 star in the	kitchen in the development.	ı		
The applicant must install basin taps with a minimum rating of 4 star	in each bathroom in the development.	- <del></del> -		
Alternative water		, <u></u>		
Rainwater tank				'
The applicant must install a rainwater tank of at least 3000 litres on the accordance with, the requirements of all applicable regulatory authorities.		1		1
The applicant must configure the rainwater tank to collect rain runoff development (excluding the area of the roof which drains to any storr				
The applicant must connect the rainwater tank to:				
all toilets in the development			1 1	1
the cold water tap that supplies each clothes washer in the development	ppment	ı	·   •	1
<ul> <li>at least one outdoor tap in the development (Note: NSW Health d consumption in areas with potable water supply.)</li> </ul>	oes not recommend that rainwater be used for human		1 🗸	<i>.</i>

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier Check
Simulation Method			!
The applicant must attach the certificate referred to under "Assessor Details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for an occupation certificate for the proposed development.			i
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX certificate, including the Cooling and Heating loads shown on the front page of this certificate.	!		
The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Assessor Certificate requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor to certify that this is the case. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.	1		
The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		1	<b>/</b>
The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.		✓	! <u> </u>
Floor and wall construction	<del>.</del>		<u> </u>
floor - concrete slab on ground  All or part of floor area square metres	: ":	·	

Certificate No.: 473622S 02

(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 6 stars.	1	<u> </u>	<b>√</b>
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	<u>.</u>	<u> </u>	1
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		<u>'</u>	· 🗸
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 2.5 - 3.0	I	<b>√</b>	🗸
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 2.5 - 3.0		1	' <b>/</b>
The heating system must provide for day/night zoning between living areas and bedrooms.	<u> </u>	/	<b>√</b>
Ventilation			
The applicant must install the following exhaust systems in the development:	<del></del>	·	<del></del>
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		• 🗸	' <b>/</b>
Laundry: natural ventilation only, or no laundry; Operation control: n/a		1.2	L.
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;		· •	· 🗸

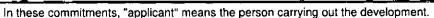
BASiX Department of Planning

Energy Commitments	and the second s	Show on DA plans	Show on CC/CDC plans & specs	Certifier Check
at least 3 of the living / dining rooms;	and the second s	\ <u>\</u>	1	1
• the kitchen;		İ	1	1
all bathrooms/toilets;			1	1
the laundry;			1	1
• all hallways;		l	1	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	1
Other				
The applicant must install a gas cooktop & electric oven in the kitc	then of the dwelling.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

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## (Legend)



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.

Department of Planning