BASI[%]Certificate

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

Single Dwelling

Certificate number: 481786S

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, 08 May 2013 To be valid, this certificate must be lodged within 3 months of the date of issue.





Project summary				
Project name	13-14297			
Street address	Elimatta Avenue J	Elimatta Avenue JORDAN SPRINGS 2747		
Local Government Area	Penrith City Council			
Plan type and plan number	deposited -			
Lot no.	2035			
Section no.	-			
Project type	separate dwelling house			
No. of bedrooms	4			
Project score				
Water	√ 40	Target 40		
Thermal Comfort	✓ Pass	Target Pass		
Energy	✓ 46	Target 40		

Name / Company Name: Energy Ratings Australia Pty Ltd

ABN (if applicable): 31133256676

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Project address	
Project name	13-14297
Street address	N/A Elimatta Avenue JORDAN SPRINGS 2747
Local Government Area	Penrith City Council
Plan type and plan number	Deposited Plan -
Lot no.	2035
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	4
Site details	
Site area (m²)	468
Roof area (m²)	269
Conditioned floor area (m2)	155
Unconditioned floor area (m2)	10
Total area of garden and lawn (m2)	184

Assessor number	20390	
Certificate number	1005255631	
Climate zone	28	
Area adjusted cooling load (MJ/m ² .year)	27	
Area adjusted heating load (MJ/m ² .year)	50	
Other		
none	n/a	
Project score		
Water	✓ 40	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 46	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.

Nater Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
ixtures			
The applicant must install showerheads with a minimum rating of 3 star (> 7.5 but <= 9 L/min) in all showers in the development.	<u> </u>	1	
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		 ✓ 	1
he 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.		1	
Alternative water		7,5	
Rainwater tank			
The applicant must install a rainwater tank of at least 3500 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	1	✓	1
The applicant must configure the rainwater tank to collect rain runoff from at least 135 square metres of the roof area of the levelopment (excluding the area of the roof which drains to any stormwater tank or private dam).	<u> </u>	1	1
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 			1
 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.) 		✓ .	1

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.			
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.			
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	1
The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.	1	1	1

Floor and wall construction	Area
floor - concrete slab on ground	All or part of floor area square metres

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 5 stars.	✓	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: 3-phase airconditioning; Energy rating: EER 2.5 - 3.0		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: 3-phase airconditioning; Energy rating: EER 3.0 - 3.5		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, ducted to façade or roof; Operation control: manual switch on/off		1	1
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off			1
Laundry: natural ventilation only, or no laundry; Operation control: n/a		1	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:			
all bathrooms/toilets;			1
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Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Natural lighting			
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			
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.			

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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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D P Number	Unreg		Unit Nun or Name	nber	
Lot Number	2035 OR	House Number	or reame	,	
Street Name Development Name Suburb or Town State Client Details Name Phone	J002713 - Mr Su & M Jordan Springs NSW	r <i>s Zhuo</i> Post Code <i>2747</i> Fax <i>02 9764 6992</i>	Email		
Postal Address	Unit 34/11-21 Under	wood Road, Homebush	NGW 2140		
Street Address	Unit 34/11-21 Under	wood Road, Homebush	NSW 2140		
Assessor Det	ails		Access	~ r	
Name	Fadi Sweis		Assesso Number	2015901	
Phone	02 9629 4688	Fax <i>02 9629 9722</i>	Email <i>fswe</i>	eis@eraservices.com	.∂U
Postal Address	PO Box 7446, Baulki	nam Hills BC NSW 2153			
Street Address	Suit 2.01, 20A Lexin,	gton Drive, Bella Vista I	USW 2153		
Signed by the a	Tilted roof windows	r with blinds cannot be i re modelled with Holland	_		

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***Buirding drement Details

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Project 13-14297 Run 1 WERRINGTON COUNTY PC 2747 Lat -33.70 Long 150.70 Climate File climat28.TXT Summary Conditioned Area 153.5 m² Unconditioned Area 39.9 m² Total Floor Area 193.4 m² Total Glazed Area 29.0 m² Total External Solid door Area 12.8 m² Glass to Floor Area 15.0 % Gross External Wall Area 188.9 m² Net External Wall Area 147.î m² Window 29.0 m^{z} GGG-05-001a Generics Uval 6.57 SHGC 0.74 Glass Single Glazed Clear Frame Aluminium External Wall 120.7 m² Brick Veneer Bulk Insulation R 2.0 26.4 m² Brick Veneer No Insulation Internal Wall 149.9 m² Cavity Panel 70mm gap No Insulation External Floor 38.0 m² Concrete Slab on Ground Carpet 10mm No Insulation 24.3 m² Concrete Slab on Ground Ceramic Tiles 8mm No Insulation 29.2 m² Concrete Slab on Ground 80/20 Carpet 10mm/Ceramic No Insulation 30.0 m² Concrete Slab on Ground Bare No Insulation 71.9 m² Concrete Slab on Ground 20/80 Carpet 10mm/Ceramic No Insulation External Ceiling 163.4 m² Plasterboard Bulk Insulation R3.5 Unventilated roofspace $30.0\ \text{m}^2$ <code>Plasterboard</code> No Insulation Unventilated roofspace Roof (Horizontal area)

193.4 m² Roof Tiles Foil, Gap Above, Reflective Side Down, Anti-glare Up 23° slope Hip roof