

BASIX[®] Certificate

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

Single Dwelling

Certificate number: 1031267S_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 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Monday, 12 August 2019

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



Project summary		
Project name	Lot 8, 600 Warringah Road Forestville_02	
Street address	600 Warringah Road Forestville 2087	
Local Government Area	Northern Beaches Council	
Plan type and plan number	deposited 23583	
Lot no.	8	
Section no.	-	
Project type	separate dwelling house	
No. of bedrooms	5	
Project score		
Water	 52	Target 40
Thermal Comfort	 Pass	Target Pass
Energy	 54	Target 50

Certificate Prepared by

Name / Company Name: Energi Thermal Assessors Pty Ltd

ABN (if applicable): 77614736284

Description of project

Project address	
Project name	Lot 8, 600 Warringah Road Forestville_02
Street address	600 Warringah Road Forestville 2087
Local Government Area	Northern Beaches Council
Plan type and plan number	Deposited Plan 23583
Lot no.	8
Section no.	-
Project type	
Project type	separate dwelling house
No. of bedrooms	5
Site details	
Site area (m ²)	653
Roof area (m ²)	289
Conditioned floor area (m2)	259.9
Unconditioned floor area (m2)	15.51
Total area of garden and lawn (m2)	308

Assessor details and thermal loads		
Assessor number	101182	
Certificate number	0004098562	
Climate zone	56	
Area adjusted cooling load (MJ/m².year)	26	
Area adjusted heating load (MJ/m².year)	38	
Project score		
Water	✓ 52	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 54	Target 50

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.		✓	✓
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		✓	✓
The applicant must install taps with a minimum rating of 4 star in the kitchen in the development.		✓	
The applicant must install basin taps with a minimum rating of 4 star in each bathroom in the development.		✓	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 6500 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 288.97 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		✓	✓
• the cold water tap that supplies each clothes washer in the development		✓	✓
• 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.)		✓	✓

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

Floor and wall construction	Area
floor - concrete slab on ground	171.0 square metres
floor - suspended floor/open subfloor	20.0 square metres
floor - suspended floor above garage	All or part of floor area


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.	✓	✓	✓
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 3.0 - 3.5		✓	✓
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 3.0 - 3.5		✓	✓
The cooling system must provide for day/night zoning between living areas and bedrooms.		✓	✓
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: interlocked to light		✓	✓
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		✓	✓
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 6 of the bedrooms / study; dedicated		✓	✓


Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<ul style="list-style-type: none"> • at least 4 of the living / dining rooms; dedicated • the kitchen; dedicated • all bathrooms/toilets; dedicated • the laundry; dedicated • all hallways; dedicated 		    	    
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 5 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 construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX definitions.			
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.

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0004098562**

Certificate Date: **09 Aug 2019**

★ Star rating: **5.2**

BERS Pro v4.3.0.0 (3.13) cannot be used to model 'roof windows'. Roof windows are 'openable or fixed windows in a roof' and do not have a shaft, as distinct from skylights which incorporate a built-in shaft and are not ventilated. BERS Pro v4.3 can only model skylights. If a roof window is present on the floor plan then this certificate is not valid.

Assessor details

Accreditation number: **101182**
Name: **Daniel.Warda**
Organisation: **Energi Thermal Assessors Pty Ltd**
Email: **daniel.warda@hotmail.com**
Phone: **0452504125**
Declaration of interest: **None**
Software: **BERS Pro v4.3.0.2d (3.13)**
AAO: **ABSA**

Overview

Dwelling details

Street: **Warringah Road**
Suburb: **Forestville**
State: **NSW** Postcode: **2087**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **8/23583** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**
Corrugated Iron
Suspended Timber Floor
Insulation: **R2.0 wall insulation**
R4.0 ceiling insulation
R4.0 floor insulation
Glazing: **STG-002-11 A Aluminium Awning**
Window SG 4ET

Net floor area (m²)

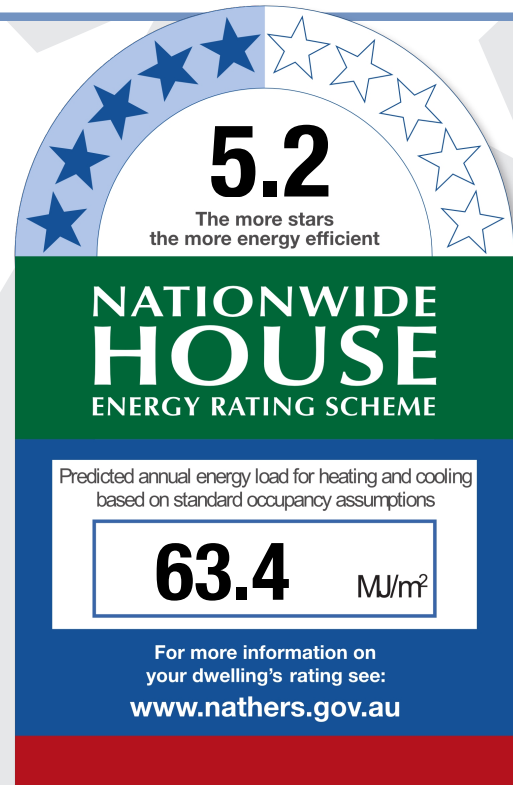
Conditioned: **351.0**
Unconditioned: **46.0**
Garage: **31.0**
TOTAL: **397.0**

Annual thermal performance loads (MJ/m²)

Heating: **37.6**
Cooling: **25.8**
TOTAL: **63.4**

Plan documents

Plan ref/date: **29800313**
Prepared by: **Clarendon Home - SMC**



Ceiling penetrations

(see following pages for details)

Sealed: **2**
Unsealed: **0**
TOTAL:** **2**

NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

Window selection - default windows only

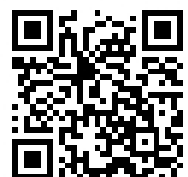
Note on allowable window values:
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004098562**

Certificate Date:

09 Aug 2019

★ Star rating:

5.2



Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
STG-005-10 A	STG-005-10 A Aluminium Sliding Door SG 4ET	4.5	0.63
STG-002-11 A	STG-002-11 A Aluminium Awning Window SG 4ET	5.0	0.55
STG-002-01 A	STG-002-01 A Aluminium Awning Window SG 3Clr	6.5	0.65

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	STG-005-10 A	n/a	2400	3200	SE	No Shading
Kitchen/Living	STG-005-10 A	n/a	2400	3600	NW	No Shading
Kitchen/Living	STG-005-10 A	n/a	2400	3600	NW	No Shading
Kitchen/Living	STG-002-11 A	n/a	2000	1400	NW	No Shading
Pantry	STG-002-11 A	n/a	2000	800	SW	No Shading
Kitchen/Living	STG-002-11 A	n/a	2590	1695	NE	No Shading
Kitchen/Living	STG-002-11 A	n/a	2590	1695	NE	No Shading
Kitchen/Living	STG-002-11 A	n/a	2590	1695	NE	No Shading
Living/MPR	STG-002-11 A	n/a	2000	2600	NW	No Shading
Living/MPR	STG-002-11 A	n/a	2057	2650	NE	No Shading
Living/MPR	STG-002-11 A	n/a	2057	3010	SE	No Shading
E.S	STG-002-01 A	n/a	1200	700	SW	No Shading
Guest	STG-002-11 A	n/a	2000	1800	SW	No Shading
Bedroom 3	STG-002-11 A	n/a	1200	1800	NW	No Shading
Bedroom 3	STG-002-11 A	n/a	1300	700	SW	No Shading
E.S	STG-002-01 A	n/a	480	3600	NW	No Shading
Bedroom 1	STG-005-10 A	n/a	2400	2700	SW	No Shading
Bedroom 1	STG-002-11 A	n/a	1200	2650	NW	No Shading
W.I.R	STG-002-11 A	n/a	1200	1400	SE	No Shading
Leisure/Study	STG-002-11 A	n/a	1200	2650	NW	No Shading
Leisure/Study	STG-002-11 A	n/a	1200	800	NE	No Shading
Leisure/Study	STG-002-11 A	n/a	1200	2960	SE	No Shading
Leisure/Study	STG-002-11 A	n/a	2057	1110	SW	No Shading
Leisure/Study	STG-005-10 A	n/a	2400	3200	SE	No Shading
Leisure/Study	STG-002-11 A	n/a	1200	800	SE	No Shading
Leisure/Study	STG-002-11 A	n/a	2280	1695	NE	Vertical Louvres, Horizontal Blades
Leisure/Study	STG-002-11 A	n/a	2280	1695	NE	Vertical Louvres, Horizontal Blades
Leisure/Study	STG-002-11 A	n/a	2280	1695	NE	Vertical Louvres, Horizontal Blades
Bedroom 4	STG-002-11 A	n/a	1200	1800	SW	No Shading
Bed 3 Ensuite	STG-002-01 A	n/a	1300	700	SW	No Shading
WC	STG-002-01 A	n/a	1300	600	SW	No Shading
Bath	STG-002-01 A	n/a	1300	1500	SW	No Shading
Bedroom 2	STG-002-11 A	n/a	1200	1400	SE	No Shading
Bedroom 2	STG-002-11 A	n/a	1200	800	SW	No Shading

Roof window and skylight type and performance value

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004098562**

Certificate Date:

09 Aug 2019

★ Star rating:

5.2



Building features continued

ID	Window type	U-value	SHGC
None Present			

Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R2	No
EW-2	Single Skin Brick	No insulation	No
EW-3	Weatherboard Cavity Panel Direct Fix	Anti-glare foil with bulk no gap R2	Yes

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/Living	EW-1	6000	3264	NE	No	100
Kitchen/Living	EW-1	4300	3264	SE	No	100
Kitchen/Living	EW-1	5595	3264	SW	No	800
Kitchen/Living	EW-1	11000	3264	NW	No	4300
Pantry	EW-1	2095	3264	SW	No	100
Pantry	EW-1	700	3264	NW	No	9900
Kitchen/Living	EW-1	6895	2750	NE	No	100
Kitchen/Living	EW-1	295	2750	NW	No	100
Kitchen/Living	EW-1	1990	2750	SE	No	2867
Living/MPR	EW-1	3995	2750	NW	No	100
Living/MPR	EW-1	8600	2750	NE	No	100
Living/MPR	EW-1	4000	2750	SE	No	100
Living/MPR	EW-1	2200	2750	SW	No	7517
Garage	EW-2	5700	2825	SE	No	1817
Garage	EW-1	5595	2825	SW	No	100
Garage	EW-1	1000	2825	NE	No	6100
Laundry	EW-1	1790	2750	SW	No	100
E.S	EW-1	1990	2750	SW	No	100
Guest	EW-1	3190	2750	SW	No	100
Bedroom 3	EW-3	3595	2600	NW	No	100
Bedroom 3	EW-3	4895	2600	SW	No	100
E.S	EW-3	3890	2600	NW	No	4000
Bedroom 1	EW-3	3900	2600	SW	No	4200
Bedroom 1	EW-3	4200	2600	NW	No	100
Bedroom 1	EW-3	3700	2600	NE	No	100
Bedroom 1	EW-1	795	2600	NE	No	100
W.I.R	EW-1	5395	2600	NE	No	100
W.I.R	EW-1	2595	2600	SE	No	100
Leisure/Study	EW-1	4300	2600	NW	No	100
Leisure/Study	EW-1	8600	2600	NE	No	100

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004098562**

Certificate Date:

09 Aug 2019

★ Star rating:

5.2



Building features continued

Leisure/Study	EW-3	4000	2600	SE	No	100
Leisure/Study	EW-3	2200	2600	SW	No	5500
Leisure/Study	EW-3	3495	2600	SE	No	2300
Leisure/Study	EW-1	1695	2600	SE	No	100
Leisure/Study	EW-1	6900	2600	NE	No	100
Bedroom 4	EW-3	4090	2600	SW	No	100
Bed 3 Ensuite	EW-3	1990	2600	SW	No	100
WC	EW-3	1890	2600	SW	No	100
Bath	EW-3	2790	2600	SW	No	100
Bedroom 2	EW-3	4195	2600	SE	No	100
Bedroom 2	EW-3	3595	2600	SW	No	100

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	281.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	28.0	Bulk Insulation, No Air Gap R2	No

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	Waffle pod slab 300 mm 100mm	64.1	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Pantry	Waffle pod slab 300 mm 100mm	6.4	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Cellar	Waffle pod slab 300 mm 100mm	2.8	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Kitchen/Living	Waffle pod slab 300 mm 100mm	36.9	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Living/MPR	Waffle pod slab 300 mm 100mm	34.1	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Garage	Waffle pod slab 300 mm 100mm	31.5	None	Waffle Pod 300mm	Bare
Powder Room	Waffle pod slab 300 mm 100mm	2.7	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Laundry	Waffle pod slab 300 mm 100mm	5.6	None	Waffle Pod 300mm	Ceramic Tiles 8mm
E.S	Waffle pod slab 300 mm 100mm	4.3	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Guest	Waffle pod slab 300 mm 100mm	10.9	None	Waffle Pod 300mm	Carpet 10mm
W.I.R	Waffle pod slab 300 mm 100mm	2.4	None	Waffle Pod 300mm	Carpet 10mm
Bedroom 3/Kitchen/Living	Timber Above Plasterboard 19mm	13.5		No Insulation	Carpet 10mm
Bedroom 3	Suspended Timber Floor 19mm	3.3	Totally Open	Bulk Insulation in Contact with Floor R4	Carpet 10mm

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004098562**

Certificate Date:

09 Aug 2019

★ Star rating:

5.2



Building features continued

E.S/Kitchen/Living	Timber Above Plasterboard 19mm	17.0	No Insulation	Ceramic Tiles 8mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	8.6	No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 19mm	16.0	Totally Open	Bulk Insulation in Contact with Floor R4
W.I.R/Kitchen/Living	Timber Above Plasterboard 19mm	13.7	No Insulation	Carpet 10mm
Leisure/Study/Kitchen/Living	Timber Above Plasterboard 19mm	8.9	No Insulation	Carpet 10mm
Leisure/Study/Cellar	Timber Above Plasterboard 19mm	2.5	No Insulation	Carpet 10mm
Leisure/Study/Kitchen/Living	Timber Above Plasterboard 19mm	37.4	No Insulation	Carpet 10mm
Leisure/Study/Living/MPR	Timber Above Plasterboard 19mm	33.9	No Insulation	Carpet 10mm
Leisure/Study/Garage	Timber Above Plasterboard 19mm	7.5	Bulk Insulation R4	Carpet 10mm
Leisure/Study/Powder Room	Timber Above Plasterboard 19mm	3.0	No Insulation	Carpet 10mm
Leisure/Study/Laundry	Timber Above Plasterboard 19mm	1.6	No Insulation	Carpet 10mm
Leisure/Study/E.S	Timber Above Plasterboard 19mm	1.5	No Insulation	Carpet 10mm
Leisure/Study/W.I.R	Timber Above Plasterboard 19mm	2.5	No Insulation	Carpet 10mm
Bedroom 4/Pantry	Timber Above Plasterboard 19mm	2.5	No Insulation	Carpet 10mm
Bedroom 4/Guest	Timber Above Plasterboard 19mm	11.0	No Insulation	Carpet 10mm
Bed 3 Ensuite/Kitchen/Living	Timber Above Plasterboard 19mm	1.2	No Insulation	Carpet 10mm
Bed 3 Ensuite/Pantry	Timber Above Plasterboard 19mm	3.7	No Insulation	Carpet 10mm
WC/E.S	Timber Above Plasterboard 19mm	2.6	No Insulation	Ceramic Tiles 8mm
Bath/Garage	Timber Above Plasterboard 19mm	2.3	Bulk Insulation R4	Ceramic Tiles 8mm
Bath/Laundry	Timber Above Plasterboard 19mm	4.1	No Insulation	Ceramic Tiles 8mm
Bedroom 2/Garage	Timber Above Plasterboard 19mm	15.8	Bulk Insulation R4	Carpet 10mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Pantry	Timber Above Plasterboard	No Insulation	No
Cellar	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Living/MPR	Timber Above Plasterboard	No Insulation	No

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004098562**

Certificate Date:

09 Aug 2019

★ Star rating:

5.2



Building features continued

Garage	Plasterboard	No insulation	Yes
Garage	Timber Above Plasterboard	Bulk Insulation R4	No
Powder Room	Timber Above Plasterboard	No Insulation	No
Laundry	Timber Above Plasterboard	No Insulation	No
E.S	Timber Above Plasterboard	No Insulation	No
Guest	Timber Above Plasterboard	No Insulation	No
W.I.R	Timber Above Plasterboard	No Insulation	No
Bedroom 3	Plasterboard	Bulk Insulation R4	Yes
E.S	Plasterboard	Bulk Insulation R4	Yes
Bedroom 1	Plasterboard	Bulk Insulation R4	Yes
W.I.R	Plasterboard	Bulk Insulation R4	Yes
Leisure/Study	Plasterboard	Bulk Insulation R4	Yes
Bedroom 4	Plasterboard	Bulk Insulation R4	Yes
Bed 3 Ensuite	Plasterboard	Bulk Insulation R4	Yes
WC	Plasterboard	Bulk Insulation R4	Yes
Bath	Plasterboard	Bulk Insulation R4	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Powder Room	1	Exhaust Fans	300	Sealed
E.S	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.3	Medium
Corrugated Iron	Bulk, Reflective Side Down, No	Medium

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004098562**

Certificate Date:

09 Aug 2019

★ Star rating:

5.2



Building features continued

Air Gap Above
R1.3

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004098562

Certificate Date: 09 Aug 2019

★ Star rating: 5.2



Additional information

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in the report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using the underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance.

The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

AAOs have specific quality assurance processes in place and continuing professional development requirements to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

Contact

For more information on the Nationwide House Energy Rating Scheme (NatHERS), visit www.nathers.gov.au

For more information on energy efficient design and insulation visit www.yourhome.gov.au