

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0004237103**

Certificate Date: **27 Sep 2019**

★ Star rating: **5.1**

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: **Warriewood Road**
 Suburb: **Warriewood**
 State: **NSW** Postcode: **2102**
 Type: **New Dwelling** NCC Class: **1A**
 NatHERS climate zone: **56**
 Lot/DP number: **9/1206507** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Fibro Cavity Panel Direct Fix Roof Tiles**
Waffle pod slab 300 mm
 Insulation: **R2.0 wall insulation**
R4.0 ceiling insulation
No floor insulation
 Glazing: **ALM-002-04 A Aluminium B SG Low Solar Gain Low-E**

Net floor area (m²)

Conditioned: **202.0**
 Unconditioned: **46.0**
 Garage: **35.0**
 TOTAL: **248.0**

Annual thermal performance loads (MJ/m²)

Heating: **39.4**
 Cooling: **25.4**
 TOTAL: **64.8**

Plan documents

Plan ref/date: **17398**
 Prepared by: **Wincrest - EB**

5.1
 The more stars
 the more energy efficient

NATIONWIDE HOUSE
 ENERGY RATING SCHEME

Predicted annual energy load for heating and cooling based on standard occupancy assumptions

64.8 MJ/m²

For more information on your dwelling's rating see:
www.nathers.gov.au

Ceiling penetrations

(see following pages for details)

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

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 downlight 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.



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Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-04 A	ALM-002-04 A Aluminium B SG Low Solar Gain Low-E	5.6	0.41
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	ALM-002-04 A	n/a	2050	2650	N	No Shading
Kitchen/Living	ALM-002-04 A	n/a	2050	1810	W	No Shading
Kitchen/Living	ALM-002-04 A	n/a	2050	1810	N	No Shading
Kitchen/Living	ALM-002-04 A	n/a	2100	5302	W	No Shading
Laundry	ALM-002-01 A	n/a	600	1810	S	No Shading
Powder Room	ALM-002-01 A	n/a	429	1210	N	No Shading
Bedroom 4	ALM-002-01 A	n/a	600	2650	N	No Shading
Bedroom 4	ALM-002-01 A	n/a	1800	1450	E	No Shading
Living	ALM-002-01 A	n/a	600	2650	N	No Shading
Living	ALM-002-01 A	n/a	1200	2650	W	No Shading
Bathroom	ALM-002-01 A	n/a	600	1210	N	No Shading
Bedroom 3	ALM-002-04 A	n/a	600	2650	N	No Shading
Bedroom 3	ALM-002-04 A	n/a	1457	2170	E	No Shading
Hall/Stairs	ALM-002-01 A	n/a	1029	1450	E	No Shading
Bedroom 2	ALM-002-04 A	n/a	1457	2650	E	No Shading
E.S	ALM-002-01 A	n/a	600	1570	S	No Shading
Bedroom 1	ALM-002-04 A	n/a	600	2650	S	No Shading
Bedroom 1	ALM-002-04 A	n/a	1200	2650	W	No Shading

Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m ²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Fibro 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	4800	2700	N	No	100
Kitchen/Living	EW-1	2500	2700	W	No	600
Kitchen/Living	EW-1	3495	2700	N	No	600
Kitchen/Living	EW-1	4995	2700	S	No	600

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Room	EW-1	Area (m²)	Volume (m³)	Orientation	Insulation	U-value
Kitchen/Living	EW-1	10600	2700	W	No	600
Laundry	EW-1	700	2700	E	No	6700
Laundry	EW-1	2495	2700	S	No	600
Entry/Stairs	EW-1	2395	2700	E	No	2500
Garage	EW-1	900	2700	N	No	7200
Garage	EW-1	5800	2700	E	No	600
Garage	EW-1	6095	2700	S	No	600
Powder Room	EW-1	1690	2700	N	No	600
Bedroom 4	EW-1	3595	2700	N	No	600
Bedroom 4	EW-1	4200	2700	E	No	1600
Bedroom 4	EW-1	895	2700	S	No	8800
Living	EW-1	4995	2450	N	No	600
Living	EW-1	4095	2450	W	No	600
Bathroom	EW-1	1600	2450	W	No	600
Bathroom	EW-1	2395	2450	N	No	600
Bedroom 3	EW-1	4095	2450	N	No	600
Bedroom 3	EW-1	3300	2450	E	No	400
Bedroom 3	EW-1	900	2450	S	No	7000
Hall/Stairs	EW-1	2390	2450	E	No	600
Bedroom 2	EW-1	3995	2450	E	No	600
Bedroom 2	EW-1	3395	2450	S	No	600
E.S	EW-1	400	2450	E	No	4000
E.S	EW-1	3200	2450	S	No	600
E.S	EW-1	400	2450	W	No	4600
Bedroom 1	EW-1	3995	2450	S	No	600
Bedroom 1	EW-1	3995	2450	W	No	600

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	141.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	30.0	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	85.4	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Laundry	Waffle pod slab 300 mm 100mm	4.3	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Entry/Stairs	Waffle pod slab 300 mm 100mm	13.9	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Garage	Waffle pod slab 300 mm 100mm	34.9	None	Waffle Pod 300mm	Bare
Powder Room	Waffle pod slab 300 mm 100mm	4.4	None	Waffle Pod 300mm	Ceramic Tiles 8mm

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Bedroom 4	Waffle pod slab 300 mm 100mm	14.0	None	Waffle Pod 300mm	Carpet 10mm
Living /Kitchen/Living	Timber Above Plasterboard 19mm	20.1		No Insulation	Carpet 10mm
Bathroom/Kitchen/Living	Timber Above Plasterboard 19mm	3.8		No Insulation	Ceramic Tiles 8mm
Bathroom/Entry/Stairs	Timber Above Plasterboard 19mm	1.2		No Insulation	Ceramic Tiles 8mm
Bathroom/Powder Room	Timber Above Plasterboard 19mm	2.2		No Insulation	Ceramic Tiles 8mm
Bedroom 3/Entry/Stairs	Timber Above Plasterboard 19mm	1.1		No Insulation	Carpet 10mm
Bedroom 3/Powder Room	Timber Above Plasterboard 19mm	0.9		No Insulation	Carpet 10mm
Bedroom 3/Bedroom 4	Timber Above Plasterboard 19mm	10.8		No Insulation	Carpet 10mm
Hall/Stairs/Kitchen/Living	Timber Above Plasterboard 19mm	1.9		No Insulation	Carpet 10mm
Hall/Stairs/Entry/Stairs	Timber Above Plasterboard 19mm	11.6		No Insulation	Carpet 10mm
Bedroom 2/Garage	Timber Above Plasterboard 19mm	13.3		No Insulation	Carpet 10mm
E.S/Kitchen/Living	Timber Above Plasterboard 19mm	3.3		No Insulation	Ceramic Tiles 8mm
E.S/Garage	Timber Above Plasterboard 19mm	4.3		No Insulation	Ceramic Tiles 8mm
W.I.R/Kitchen/Living	Timber Above Plasterboard 19mm	2.5		No Insulation	Carpet 10mm
W.I.R/Garage	Timber Above Plasterboard 19mm	3.2		No Insulation	Carpet 10mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	15.6		No Insulation	Carpet 10mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/Living	Plasterboard	Bulk Insulation R4	Yes
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Laundry	Plasterboard	Bulk Insulation R4	Yes
Entry/Stairs	Timber Above Plasterboard	No Insulation	No
Garage	Plasterboard	No insulation	Yes
Garage	Timber Above Plasterboard	No Insulation	No
Powder Room	Plasterboard	Bulk Insulation R4	Yes
Powder Room	Timber Above Plasterboard	No Insulation	No
Bedroom 4	Plasterboard	Bulk Insulation R4	Yes
Bedroom 4	Timber Above Plasterboard	No Insulation	No
Living	Plasterboard	Bulk Insulation R4	Yes

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Bathroom	Plasterboard	Bulk Insulation R4	Yes
Bedroom 3	Plasterboard	Bulk Insulation R4	Yes
Hall/Stairs	Plasterboard	Bulk Insulation R4	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4	Yes
E.S	Plasterboard	Bulk Insulation R4	Yes
W.I.R	Plasterboard	Bulk Insulation R4	Yes
Bedroom 1	Plasterboard	Bulk Insulation R4	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
None Present				

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Dark
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Dark

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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