

# Nationwide House Energy Rating Scheme\* Certificate



Certificate number: **0004076485**

Certificate Date: **02 Aug 2019**

★ Star rating: **5.6**

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: **Bubalo Street**  
Suburb: **Warriewood**  
State: **NSW** Postcode: **2102**  
Type: **New Dwelling** NCC Class: **1A**  
NatHERS climate zone: **56**  
Lot/DP number: **13/271139** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Roof Tiles**  
**Waffle pod slab 300 mm**  
Insulation: **R2.0 wall insulation**  
**R4.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-01 A Aluminium B SG Clear**

### Net floor area (m<sup>2</sup>)

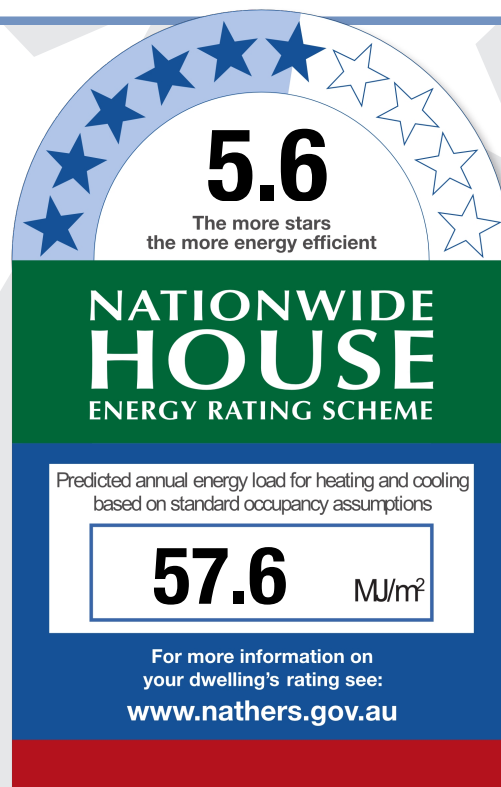
Conditioned: **133.0**  
Unconditioned: **32.0**  
Garage: **18.0**  
TOTAL: **165.0**

### Annual thermal performance loads (MJ/m<sup>2</sup>)

Heating: **39.2**  
Cooling: **18.4**  
TOTAL: **57.6**

### Plan documents

Plan ref/date: **17264**  
Prepared by: **Wincrest - EC**



### 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 daylight type: **Unknown**

### Window selection - default windows only

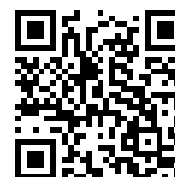
Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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.



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## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70
ALM-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.7	0.57

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	ALM-002-01 A	n/a	429	1450	SW	No Shading
Kitchen/Living	ALM-002-01 A	n/a	1460	1450	NE	No Shading
Kitchen/Living	ALM-001-01 A	n/a	2100	4272	SE	No Shading
W.C	ALM-002-01 A	n/a	600	610	SW	No Shading
Living/Lounge	ALM-001-01 A	n/a	1800	850	NW	No Shading
Living/Lounge	ALM-001-01 A	n/a	1800	850	NW	No Shading
Bedroom 3	ALM-002-01 A	n/a	1372	1450	SE	No Shading
Bathroom	ALM-002-01 A	n/a	1200	1210	SW	No Shading
Bedroom 1	ALM-001-01 A	n/a	1460	850	NW	No Shading
Bedroom 1	ALM-001-01 A	n/a	1460	850	NW	No Shading
Bedroom 1	ALM-001-01 A	n/a	1460	850	NW	No Shading
Bedroom 1	ALM-001-01 A	n/a	1460	850	NW	No Shading
E.S	ALM-002-01 A	n/a	860	850	NE	No Shading
Bedroom 2	ALM-002-01 A	n/a	1372	1450	SE	No Shading
Stairs	ALM-002-01 A	n/a	1200	1450	NE	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 <sup>2</sup> )	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	Fibro Cavity Panel Direct Fix	Anti-glare foil with bulk no gap R2	Yes
EW-4	Single Skin Panel	Bulk Insulation R2.6	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/Living	EW-1	6395	2750	SW	No	100
Kitchen/Living	EW-1	5895	2750	NE	No	100
Kitchen/Living	EW-1	6500	2750	SE	No	600
Pantry	EW-1	1190	2750	SW	No	100

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W.C	EW-1	990	2750	SW	No	100
Garage	EW-1	695	2825	SW	No	100
Garage	EW-1	800	2825	SE	No	100
Garage	EW-1	5500	2825	SW	No	100
Garage	EW-2	3000	2825	NW	No	100
Garage	EW-1	600	2825	NE	No	4400
Living/Lounge	EW-1	1495	2750	NW	No	1200
Living/Lounge	EW-1	1100	2750	SW	No	4600
Living/Lounge	EW-1	2800	2750	NW	No	100
Living/Lounge	EW-1	4595	2750	NE	No	100
Living/Lounge	EW-1	2190	2750	NE	No	100
Laundry	EW-1	2590	2750	NE	No	100
Bedroom 3	EW-3	3695	2450	SW	No	600
Bedroom 3	EW-4	2995	275	SE	No	0
Bedroom 3	EW-3	2995	2175	SE	No	600
Bathroom	EW-3	2790	2450	SW	No	600
W.I.R	EW-3	1390	2450	SW	No	600
Bedroom 1	EW-3	3595	2450	SW	No	600
Bedroom 1	EW-3	6500	2450	NW	No	600
Bedroom 1	EW-3	3595	2450	NE	No	600
E.S	EW-3	1995	2450	NE	No	600
Bedroom 2	EW-3	3595	2450	NE	No	600
Bedroom 2	EW-4	3495	275	SE	No	0
Bedroom 2	EW-3	3495	2175	SE	No	600
Stairs	EW-3	2290	2450	NE	No	600

## Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	126.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	21.0	Bulk Insulation, No Air Gap R2	No

## Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	Waffle pod slab 300 mm 100mm	41.6	None	Waffle Pod 300mm	Vinyl 3mm
Pantry	Waffle pod slab 300 mm 100mm	1.6	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
W.C	Waffle pod slab 300 mm 100mm	1.5	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Garage	Waffle pod slab 300 mm 100mm	17.7	None	Waffle Pod 300mm	Bare
Living/Lounge	Waffle pod slab 300 mm 100mm	29.6	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Laundry	Waffle pod slab 300 mm 100mm	6.7	None	Waffle Pod	Ceramic Tiles

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Bedroom 3/Kitchen/Living	AAC Above Plasterboard 19mm	10.0	300mm	8mm
Bathroom/Kitchen/Living	AAC Above Plasterboard 19mm	1.2	No Insulation	Carpet 10mm
Bathroom/Pantry	AAC Above Plasterboard 19mm	1.7	No Insulation	Ceramic Tiles 8mm
Bathroom/W.C	AAC Above Plasterboard 19mm	1.6	No Insulation	Ceramic Tiles 8mm
Bathroom/Living/Lounge	AAC Above Plasterboard 19mm	1.5	No Insulation	Ceramic Tiles 8mm
W.I.R/Garage	AAC Above Plasterboard 19mm	2.7	No Insulation	Carpet 10mm
Bedroom 1/Garage	AAC Above Plasterboard 19mm	7.8	No Insulation	Carpet 10mm
Bedroom 1/Living/Lounge	AAC Above Plasterboard 19mm	13.7	No Insulation	Carpet 10mm
Bedroom 1/Laundry	AAC Above Plasterboard 19mm	1.6	No Insulation	Carpet 10mm
E.S/Laundry	AAC Above Plasterboard 19mm	5.1	No Insulation	Carpet 10mm
Bedroom 2/Kitchen/Living	AAC Above Plasterboard 19mm	11.6	No Insulation	Carpet 10mm
Stairs/Kitchen/Living	AAC Above Plasterboard 19mm	3.9	No Insulation	Carpet 10mm
Stairs/Living/Lounge	AAC Above Plasterboard 19mm	9.3	No Insulation	Carpet 10mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/Living	Plasterboard	Bulk Insulation R4	Yes
Kitchen/Living	AAC Above Plasterboard	No Insulation	No
Pantry	AAC Above Plasterboard	No Insulation	No
W.C	AAC Above Plasterboard	No Insulation	No
Garage	Plasterboard	No insulation	Yes
Garage	AAC Above Plasterboard	No Insulation	No
Living/Lounge	Plasterboard	Bulk Insulation R4	Yes
Living/Lounge	AAC Above Plasterboard	No Insulation	No
Laundry	AAC Above Plasterboard	No Insulation	No
Bedroom 3	Plasterboard	Bulk Insulation R4	Yes
Bathroom	Plasterboard	Bulk Insulation R4	Yes
W.I.R	Plasterboard	Bulk Insulation R4	Yes
Bedroom 1	Plasterboard	Bulk Insulation R4	Yes
E.S	Plasterboard	Bulk Insulation R4	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4	Yes
Stairs	Plasterboard		Yes

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### Building features continued

Bulk Insulation  
R4

#### 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	Medium
Corrugated Iron	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Medium

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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](http://www.nathers.gov.au)

For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)