

# Nationwide House Energy Rating Scheme\* Certificate



Certificate number: **0002578508**

Certificate Date: **23 Mar 2018**

★ 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: **20390**  
Name: **Fadi Sweis**  
Organisation: **Energy Ratings Australia Pty Ltd**  
Email: **fsweis@eraservices.com.au**  
Phone: **1800 372 669**  
Declaration of interest: **None**  
Software: **BERS Pro v4.3.0.2b (3.13)**  
AAO: **ABSA**

## Overview

### Dwelling details

Street: **Proposed Road**  
Suburb: **Warriewood**  
State: **NSW** Postcode: **2102**  
Type: **New Dwelling** NCC Class: **1A**  
NatHERS climate zone: **56**  
Lot/DP number: **215/-** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Roof Tiles**  
**Suspended Timber Floor**  
Insulation: **R2.0 wall insulation**  
**R3.5 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-01 A Aluminium B SG Clear**

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

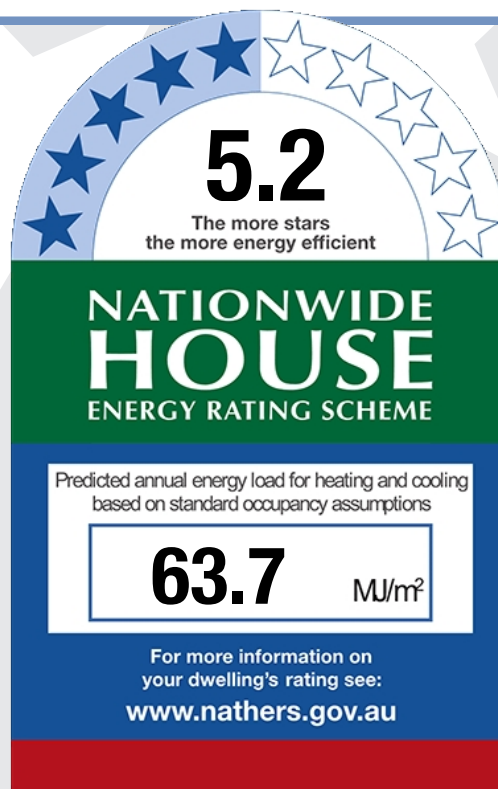
Conditioned: **155.0**  
Unconditioned: **31.0**  
Garage: **21.0**  
TOTAL: **186.0**

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

Heating: **38.1**  
Cooling: **25.6**  
TOTAL: **63.7**

### Plan documents

Plan ref/date: **A008108**  
Prepared by: **FL**



### Ceiling penetrations

(see following pages for details)

Sealed: **29**  
Unsealed: **0**  
TOTAL:\*\* **29**

\*\*\*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: **LED**

### 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
Lounge	ALM-002-01 A	n/a	1500	1800	NW	No Shading
Ldry	ALM-001-01 A	n/a	2100	820	SW	No Shading
Kitchen/Living	ALM-002-01 A	n/a	2300	700	NE	No Shading
Kitchen/Living	ALM-002-01 A	n/a	2300	700	NE	No Shading
Kitchen/Living	ALM-002-01 A	n/a	2300	1800	SE	No Shading
Kitchen/Living	ALM-002-01 A	n/a	2300	1500	SW	No Shading
Kitchen/Living	ALM-002-01 A	n/a	2300	2600	SE	No Shading
Kitchen/Living	ALM-001-01 A	n/a	2300	700	SW	No Shading
Kitchen/Living	ALM-001-01 A	n/a	2300	700	SW	No Shading
Bedroom 1	ALM-002-01 A	n/a	1200	1400	NE	No Shading
ENS	ALM-002-01 A	n/a	343	1930	NE	No Shading
ENS	ALM-001-01 A	n/a	1600	600	SE	No Shading
Bath	ALM-002-01 A	n/a	1200	1200	NE	No Shading
Bedroom 2	ALM-002-01 A	n/a	2100	2100	NW	No Shading
Bedroom 3	ALM-001-01 A	n/a	600	1800	NW	No Shading
Bedroom 4	ALM-002-01 A	n/a	1200	1400	SE	No Shading
Media	ALM-002-01 A	n/a	1300	700	SW	No Shading
Media	ALM-002-01 A	n/a	1200	1200	SW	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	Brick Veneer	No insulation	No
EW-3	Cavity Brick	No insulation	No
EW-4	Weatherboard Cavity Panel Direct Fix	Bulk Insulation R2	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
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Lounge	EW-1	1900	2600	NE	No	1400
Lounge	EW-1	3695	2600	SW	No	50
Lounge	EW-1	3200	2600	NW	No	1700
Ldry	EW-1	1990	2600	SW	No	50
Kitchen/Living	EW-1	8745	2600	NE	No	50
Kitchen/Living	EW-1	4050	2600	SE	No	50
Kitchen/Living	EW-1	2400	2600	SW	No	3950
Kitchen/Living	EW-1	3300	2600	SE	No	4650
Kitchen/Living	EW-1	7245	2600	SW	No	50
Entry	EW-1	1290	2600	NW	No	3600
Garage 1	EW-2	195	2675	NW	No	3600
Garage 1	EW-3	850	2675	SW	No	4750
Garage 1	EW-3	3700	2675	NW	No	50
Garage 1	EW-2	5550	2675	NE	No	50
Garage 1	EW-2	1050	2675	SE	No	50
Bedroom 1	EW-4	4040	2450	NE	No	650
ENS	EW-4	3645	2450	NE	No	650
ENS	EW-4	1645	2450	SE	No	600
WIR	EW-4	2095	2450	SE	No	600
WIR	EW-4	3445	2450	SW	No	650
Bath	EW-4	3190	2450	NE	No	650
Bedroom 2	EW-4	1050	2450	NE	No	4250
Bedroom 2	EW-4	3695	2450	SW	No	650
Bedroom 2	EW-4	3200	2450	NW	No	650
Bedroom 3	EW-4	3595	2450	NW	No	650
Bedroom 3	EW-4	3395	2450	NE	No	650
Bedroom 4	EW-4	3050	2450	SE	No	650
Bedroom 4	EW-4	4145	2450	SW	No	650
Media	EW-4	4040	2450	SW	No	650

## Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	122.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	20.0	Bulk Insulation, No Air Gap R2	No

## Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Lounge	Waffle pod slab 300 mm 100mm	11.6	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Ldry	Waffle pod slab 300 mm 100mm	3.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
WC	Waffle pod slab 300 mm 100mm	1.3	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Kitchen/Living	Waffle pod slab 300 mm 100mm	58.9	None		

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Location	Construction	U-value	Notes	Insulation	Flooring
Entry	Waffle pod slab 300 mm 100mm	7.1	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Garage 1	Waffle pod slab 225 mm 100mm	21.1	None	Waffle Pod 225mm	Bare
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	13.7		No Insulation	Carpet 10mm
ENS/Kitchen/Living	Timber Above Plasterboard 19mm	6.7		No Insulation	Ceramic Tiles 8mm
WIR/Kitchen/Living	Timber Above Plasterboard 19mm	5.8		No Insulation	Carpet 10mm
WIR	Suspended Timber Floor 19mm	0.6	Totally Open	No Insulation	Carpet 10mm
Bath/Kitchen/Living	Timber Above Plasterboard 19mm	2.2		No Insulation	Ceramic Tiles 8mm
Bath/Garage 1	Timber Above Plasterboard 19mm	4.5		No Insulation	Ceramic Tiles 8mm
Bedroom 2/Lounge	Timber Above Plasterboard 19mm	10.9		No Insulation	Carpet 10mm
Bedroom 3/Entry	Timber Above Plasterboard 19mm	3.2		No Insulation	Carpet 10mm
Bedroom 3/Garage	Timber Above Plasterboard 19mm	7.5		No Insulation	Carpet 10mm
Bedroom 3	Suspended Timber Floor 19mm	1.2	Totally Open	No Insulation	Carpet 10mm
Bedroom 4/Kitchen/Living	Timber Above Plasterboard 19mm	12.1		No Insulation	Carpet 10mm
Media/Lounge	Timber Above Plasterboard 19mm	0.6		No Insulation	Carpet 10mm
Media/Ldry	Timber Above Plasterboard 19mm	3.1		No Insulation	Carpet 10mm
Media/WC	Timber Above Plasterboard 19mm	1.5		No Insulation	Carpet 10mm
Media/Kitchen/Living	Timber Above Plasterboard 19mm	9.0		No Insulation	Carpet 10mm
Media/Entry	Timber Above Plasterboard 19mm	4.2		No Insulation	Carpet 10mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Lounge	Timber Above Plasterboard	No Insulation	No
Ldry	Timber Above Plasterboard	No Insulation	No
WC	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Plasterboard	Bulk Insulation R3.5	Yes
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Entry	Timber Above Plasterboard	No Insulation	No
Garage 1	Plasterboard	No insulation	Yes
Garage 1	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R3.5	Yes
ENS	Plasterboard	Bulk Insulation R3.5	Yes

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WIR	Plasterboard	Bulk Insulation R3.5	Yes
Bath	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 2	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 3	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 4	Plasterboard	Bulk Insulation R3.5	Yes
Media	Plasterboard	Bulk Insulation R3.5	Yes

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Lounge	4	Downlights - LED	150	Sealed
WC	1	Exhaust Fans	300	Sealed
Kitchen/Living	24	Downlights - LED	150	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Medium
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Medium
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](http://www.nathers.gov.au)

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