

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0002482768-01**

Certificate Date: **02 Nov 2018**

★ Star rating: **5.4**

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 v4.3.0.2d (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: **1/Unreg** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**
Corrugated Iron
Waffle pod slab 300 mm
 Insulation: **R2.5 wall insulation**
R4.1 ceiling insulation
No floor insulation
 Glazing: **BRD-063-07 A SIG Fixed Lite (67mm)**
SG 4ET

Net floor area (m²)

Conditioned: **124.0**
 Unconditioned: **43.0**
 Garage: **30.0**
 TOTAL: **167.0**

Annual thermal performance loads (MJ/m²)

Heating: **35.5**
 Cooling: **25.6**
 TOTAL: **61.1**

Plan documents

Plan ref/date: **A007713**
 Prepared by: **FL**

5.4
 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

61.1 MJ/m²

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

Ceiling penetrations

(see following pages for details)

Sealed: **23**
 Unsealed: **0**
 TOTAL:** **23**

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-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.7	0.57
BRD-063-07 A	BRD-063-07 A SIG Fixed Lite (67mm) SG 4ET	4.1	0.66
BRD-001-13 A	BRD-001-13 A ESS Sliding Window (52mm) SG 4EA	4.6	0.63
AIR-020-03 W	AIR-020-03 W Cedar Double Hung Window SG 5Clr	4.7	0.61
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70
STG-002-18 A	STG-002-18 A Aluminium Awning Window SG 638CPClr	4.9	0.52
ALS-030-24 A	ALS-030-24 A 92mm Carinya Classic Awning Window SG 6ET	5.1	0.53

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Laundry	ALM-001-01 A	n/a	2100	820	SE	No Shading
Powder	BRD-063-07 A	n/a	1800	300	SW	No Shading
Kitchen/Living	BRD-063-07 A	n/a	2000	1400	NW	No Shading
Kitchen/Living	BRD-001-13 A	n/a	2400	2600	SW	No Shading
Kitchen/Living	AIR-020-03 W	n/a	2300	2100	SW	No Shading
Kitchen/Living	BRD-001-13 A	n/a	2000	2100	NW	No Shading
Kitchen/Living	BRD-063-07 A	n/a	686	2800	NW	No Shading
Kitchen/Living	BRD-063-07 A	n/a	2000	2100	NE	No Shading
Bedroom 1	ALM-001-01 A	n/a	1500	2100	NE	No Shading
Bedroom 2	ALM-002-01 A	n/a	1200	1500	SW	No Shading
Bedroom 3	ALM-002-01 A	n/a	600	2100	SE	No Shading
Ensuite	ALM-002-01 A	n/a	300	1600	SE	No Shading
Bathroom	ALM-002-01 A	n/a	1200	1500	SW	No Shading
Bathroom	ALM-002-01 A	n/a	900	600	NW	No Shading
Study/Hallway	STG-002-18 A	n/a	900	2100	NW	No Shading
Study/Hallway	ALS-030-24 A	n/a	429	1570	NW	No Shading
Study/Hallway	BRD-063-07 A	n/a	429	1570	NW	No Shading
Study/Hallway	ALS-030-24 A	n/a	429	1570	NE	No Shading
Study/Hallway	BRD-063-07 A	n/a	429	1570	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 ²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Cavity Brick	No insulation	No
EW-2	Brick Veneer	No insulation	No

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Building features continued

EW-3	Brick Veneer	Bulk Insulation R2.5	No
EW-4	Weatherboard Cavity Panel Direct Fix	Bulk Insulation R2.5	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Garage 1	EW-1	5495	2675	NE	No	1200
Garage 1	EW-2	5495	2675	SE	No	50
Laundry	EW-3	2640	2600	SE	No	50
Powder	EW-3	1995	2600	SE	No	50
Powder	EW-3	1545	2600	SW	No	50
Kitchen/Living	EW-3	1050	2600	NW	No	50
Kitchen/Living	EW-3	1500	2600	NE	No	2000
Kitchen/Living	EW-3	1950	2600	NW	No	1550
Kitchen/Living	EW-3	1445	2600	NE	No	1200
Kitchen/Living	EW-3	9895	2600	SW	No	50
Kitchen/Living	EW-3	7150	2600	NW	No	50
Kitchen/Living	EW-3	3000	2600	NE	No	50
Bedroom 1	EW-4	3595	2450	SE	No	50
Bedroom 1	EW-4	1150	2450	NW	No	50
Bedroom 1	EW-4	3950	2450	NE	No	50
Bedroom 2	EW-4	3245	2450	SW	No	50
Bedroom 2	EW-4	3045	2450	SE	No	50
Bedroom 3	EW-4	2990	2450	SE	No	50
Ensuite	EW-4	1645	2450	SE	No	50
Ensuite	EW-4	700	2450	SW	No	50
WIR 2	EW-4	1140	2450	SW	No	50
Bathroom	EW-4	1945	2450	SW	No	50
Bathroom	EW-3	4645	2450	NW	No	50
Study/Hallway	EW-3	3745	2450	NW	No	50
Study/Hallway	EW-4	1750	2450	NW	No	50
Study/Hallway	EW-4	3095	2450	NE	No	50

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	29.0	Bulk Insulation, No Air Gap R2.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	92.0	No insulation	No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Garage 1	Waffle pod slab 225 mm 100mm	29.8	None	Waffle Pod 225mm	Bare
Laundry	Waffle pod slab 300 mm 100mm	6.0	None	Waffle Pod	Ceramic Tiles

* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

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Building features continued

Location	Construction	U-value	Notes	Insulation	Flooring
Powder	Waffle pod slab 300 mm 100mm	2.9	None	300mm Waffle Pod	8mm Ceramic Tiles
Kitchen/Living	Waffle pod slab 300 mm 100mm	64.0	None	300mm Waffle Pod	8mm Ceramic Tiles
Bedroom 1/Garage	Timber Above Plasterboard 100mm	9.5		No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 100mm	4.4	Totally Open	No Insulation	Carpet 10mm
Bedroom 2/Kitchen/Living	Timber Above Plasterboard 19mm	9.4		No Insulation	Carpet 10mm
Bedroom 3/Garage	Timber Above Plasterboard 19mm	4.3		No Insulation	Carpet 10mm
Bedroom 3/Laundry	Timber Above Plasterboard 19mm	0.8		No Insulation	Carpet 10mm
Bedroom 3/Kitchen/Living	Timber Above Plasterboard 19mm	4.2		No Insulation	Carpet 10mm
Ensuite/Garage 1	Timber Above Plasterboard 19mm	3.9		No Insulation	8mm Ceramic Tiles
WIR 1/Garage 1	Timber Above Plasterboard 19mm	2.0		No Insulation	Carpet 10mm
WIR 2/Kitchen/Living	Timber Above Plasterboard 19mm	2.0		No Insulation	Carpet 10mm
Bathroom/Kitchen/Living	Timber Above Plasterboard 19mm	7.2		No Insulation	8mm Ceramic Tiles
Study/Hallway/Garage 1	Timber Above Plasterboard 19mm	0.8		No Insulation	Carpet 10mm
Study/Hallway/Kitchen/Living	Timber Above Plasterboard 19mm	17.4		No Insulation	Carpet 10mm
Study/Hallway	Suspended Timber Floor 19mm	2.8	Totally Open	No Insulation	Carpet 10mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Garage 1	Plasterboard	No insulation	Yes
Garage 1	Timber Above Plasterboard	No Insulation	No
Laundry	Plasterboard	Bulk Insulation R4.1	Yes
Laundry	Timber Above Plasterboard	No Insulation	No
Powder	Plasterboard	Bulk Insulation R4.1	Yes
Kitchen/Living	Plasterboard	Bulk Insulation R4.1	Yes
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 3	Plasterboard	Bulk Insulation R4.1	Yes
Ensuite	Plasterboard	Bulk Insulation R4.1	Yes
WIR 1	Plasterboard	Bulk Insulation R4.1	Yes

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WIR 2	Plasterboard	Bulk Insulation R4.1	Yes
Bathroom	Plasterboard	Bulk Insulation R4.1	Yes
Study/Hallway	Plasterboard	Bulk Insulation R4.1	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Powder	1	Exhaust Fans	300	Sealed
Kitchen/Living	20	Downlights - LED	150	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
Bathroom	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, Anti-glare Up R1.3	Medium
Corrugated Iron	Bulk, Reflective Side Down, Anti-glare Up R1.3	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

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

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