

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0003603057**

Certificate Date: **11 Feb 2019**

★ Star rating: **5.9**

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: **VIC/BDAV/12/1441**

Name: **Ian Fry**

Organisation: **Frys Energywise**

Email: **comply@frysenergywise.com.au**

Phone: **02 9899 2825**

Declaration of interest: **The Assessor has provided design advice to the Applicant**

Software: **BERS Pro v4.3.0.2d (3.13)**

AAO: **BDAV**

Overview

Dwelling details

Street: **29-31 Warriewood Road**

Suburb: **Warriewood**

State: **NSW**

Postcode: **2102**

Type: **New Dwelling**

NCC Class: **1A**

NatHERS

climate zone: **56**

Lot/DP

number: **10/0**

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

R4.0 ceiling insulation

No floor insulation

Glazing:

BRD-001-15 A ESS Sliding Window (52mm) SG 638CP

Net floor area (m²)

Conditioned: **214.0**

Unconditioned: **57.0**

Garage: **38.0**

TOTAL: **270.0**

Annual thermal performance loads (MJ/m²)

Heating: **27.1**

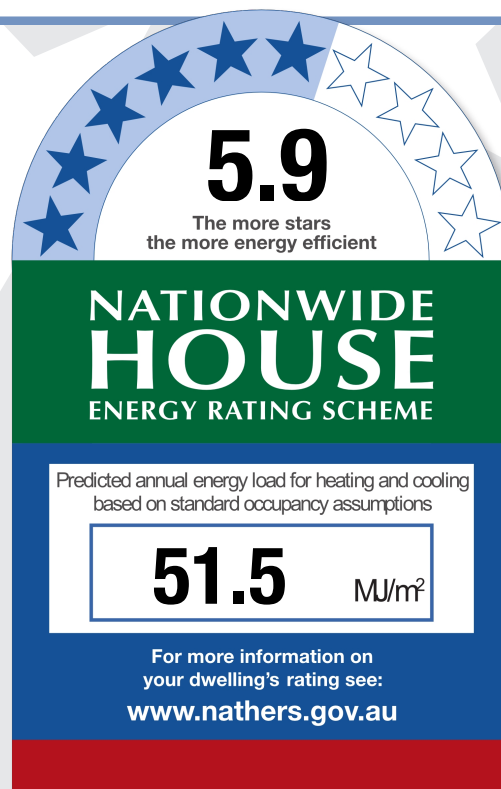
Cooling: **24.5**

TOTAL: **51.5**

Plan documents

Plan ref/date: **MRZ-17-161**

Prepared by: **Simone Homes**



Ceiling penetrations

(see following pages for details)

Sealed: **3**

Unsealed: **0**

TOTAL:** **3**

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
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.4	0.56
BRD-001-15 A	BRD-001-15 A ESS Sliding Window (52mm) SG 638CP	4.6	0.46
BRD-033-10 A	BRD-033-10 A ESS Sliding Door (80mm) SG 6.38CPClr	4.3	0.60
BRD-001-01 A	BRD-001-01 A ESS Sliding Window (52mm) SG 3Clr	6.4	0.76

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Laundry	TIM-001-01 W	n/a	1000	820	S	No Shading
Kitchen/Living	BRD-001-15 A	n/a	1200	1500	W	No Shading
Kitchen/Living	BRD-033-10 A	n/a	2100	3400	W	No Shading
Kitchen/Living	BRD-001-15 A	n/a	600	2400	N	No Shading
PDR	BRD-001-01 A	n/a	900	900	N	No Shading
Ensuite	BRD-001-01 A	n/a	900	900	N	No Shading
Master Bed	BRD-001-15 A	n/a	2100	1500	E	No Shading
Master Bed	BRD-001-15 A	n/a	2100	1500	E	No Shading
Entry	TIM-001-01 W	n/a	2100	920	E	No Shading
Bed 2	BRD-001-15 A	n/a	1500	1200	E	No Shading
Bed 2	BRD-001-15 A	n/a	1500	1200	E	No Shading
Bed 2	BRD-001-15 A	n/a	1200	1200	S	No Shading
Bath	BRD-001-01 A	n/a	900	900	S	No Shading
Study	BRD-001-15 A	n/a	1200	1800	W	No Shading
Gallery	BRD-001-15 A	n/a	1200	1800	W	No Shading
Rumpus	BRD-001-15 A	n/a	1200	1800	W	No Shading
Rumpus	BRD-001-15 A	n/a	1500	1800	N	No Shading
Bed 3	BRD-001-15 A	n/a	1500	1500	E	No Shading
Bed 3	BRD-001-15 A	n/a	1500	1500	E	No Shading
Bed 4	BRD-001-15 A	n/a	1500	1500	E	No Shading
Garage	BRD-001-01 A	n/a	600	1200	S	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 (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	Brick Veneer	No insulation	No
EW-3	Single Skin Brick	No insulation	No

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External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Laundry	EW-1	2090	2450	S	No	100
Kitchen/Living	EW-1	3895	2450	S	No	100
Kitchen/Living	EW-1	12100	2450	W	No	2600
Kitchen/Living	EW-1	3895	2450	N	No	100
PDR	EW-1	1190	2450	N	No	100
WIR	EW-1	1490	2450	N	No	100
Ensuite	EW-1	1790	2450	N	No	100
Master Bed	EW-1	4695	2450	N	No	100
Master Bed	EW-1	4100	2450	E	No	600
Master Bed	EW-1	2100	2450	S	No	8600
Entry	EW-1	1690	2100	E	No	3300
Bed 2	EW-1	3895	2450	E	No	600
Bed 2	EW-1	6295	2450	S	No	600
Bath	EW-1	2690	2450	S	No	600
Study	EW-1	1995	2450	S	No	600
Study	EW-1	3895	2450	W	No	600
Gallery	EW-1	4090	2450	W	No	600
Rumpus	EW-1	4095	2450	W	No	600
Rumpus	EW-1	6195	2450	N	No	600
Bed 3	EW-1	5195	2450	N	No	600
Bed 3	EW-1	4100	2450	E	No	600
Bed 3	EW-1	400	2450	S	No	8600
Bed 4	EW-1	4090	2450	E	No	600
Garage	EW-2	1100	2535	N	No	5900
Garage	EW-3	6300	2535	E	No	600
Garage	EW-2	6095	2535	S	No	100

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	194.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	26.0	Bulk Insulation, No Air Gap R2	No

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Laundry	Waffle pod slab 300 mm 100mm	5.5	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Kitchen/Living	Waffle pod slab 300 mm 100mm	46.6	None	Waffle Pod 300mm	80/20 Carpet 10mm/Ceramic
PDR	Waffle pod slab 300 mm 100mm	3.3	None	Waffle Pod 300mm	Ceramic Tiles 8mm

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WIR	Waffle pod slab 300 mm 100mm	5.7	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Ensuite	Waffle pod slab 300 mm 100mm	5.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Master Bed	Waffle pod slab 300 mm 100mm	20.8	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Entry	Waffle pod slab 300 mm 100mm	17.2	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Passage	Waffle pod slab 300 mm 100mm	2.2	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Bed 2/Laundry	Timber Above Plasterboard 100mm	3.6		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2/Passage	Timber Above Plasterboard 100mm	1.4		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2/Garage	Timber Above Plasterboard 100mm	19.1		No Insulation	Carpet+Rubber Underlay 18mm
Bath/Laundry	Timber Above Plasterboard 100mm	2.1		No Insulation	Ceramic Tiles 8mm
Bath/Kitchen/Living	Timber Above Plasterboard 100mm	7.1		No Insulation	Ceramic Tiles 8mm
Bath/Passage	Timber Above Plasterboard 100mm	0.8		No Insulation	Ceramic Tiles 8mm
Study/Kitchen/Living	Timber Above Plasterboard 19mm	7.5		No Insulation	Carpet+Rubber Underlay 18mm
Gallery/Kitchen/Living	Timber Above Plasterboard 19mm	14.3		No Insulation	Carpet+Rubber Underlay 18mm
Rumpus/Kitchen/Living	Timber Above Plasterboard 19mm	15.7		No Insulation	Carpet+Rubber Underlay 18mm
Rumpus/PDR	Timber Above Plasterboard 19mm	3.5		No Insulation	Carpet+Rubber Underlay 18mm
Rumpus/WIR	Timber Above Plasterboard 19mm	4.4		No Insulation	Carpet+Rubber Underlay 18mm
Rumpus/Entry	Timber Above Plasterboard 19mm	1.3		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/WIR	Timber Above Plasterboard 19mm	1.6		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Ensuite	Timber Above Plasterboard 19mm	5.3		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Master Bed	Timber Above Plasterboard 19mm	14.0		No Insulation	Carpet+Rubber Underlay 18mm
Bed 4/Entry	Timber Above Plasterboard 19mm	5.9		No Insulation	Carpet+Rubber Underlay 18mm
Bed 4/Garage	Timber Above Plasterboard 19mm	8.3		No Insulation	Carpet+Rubber Underlay 18mm
Pass/Stairwell/Kitchen/Living	Timber Above Plasterboard 19mm	1.1		No Insulation	Carpet+Rubber Underlay 18mm
Pass/Stairwell/Entry	Timber Above Plasterboard 19mm	10.3		No Insulation	Carpet+Rubber Underlay 18mm
Pass/Stairwell/Garage	Timber Above Plasterboard 19mm	3.2		No Insulation	Carpet+Rubber Underlay 18mm
Garage	Waffle pod slab 225 mm 100mm	37.9	None	Waffle Pod 225mm	Bare

Ceiling type

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Location	Construction	Added insulation	Roof space above
Laundry	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
PDR	Timber Above Plasterboard	No Insulation	No
WIR	Timber Above Plasterboard	No Insulation	No
Ensuite	Timber Above Plasterboard	No Insulation	No
Master Bed	Plasterboard	Bulk Insulation R4	Yes
Master Bed	Timber Above Plasterboard	No Insulation	No
Entry	Timber Above Plasterboard	No Insulation	No
Passage	Timber Above Plasterboard	No Insulation	No
Bed 2	Plasterboard	Bulk Insulation R4	Yes
Bath	Plasterboard	Bulk Insulation R4	Yes
Study	Plasterboard	Bulk Insulation R4	Yes
Gallery	Plasterboard	Bulk Insulation R4	Yes
Rumpus	Plasterboard	Bulk Insulation R4	Yes
Bed 3	Plasterboard	Bulk Insulation R4	Yes
Bed 4	Plasterboard	Bulk Insulation R4	Yes
Pass/Stairwell	Plasterboard	Bulk Insulation R4	Yes
Garage	Plasterboard	No insulation	Yes
Garage	Timber Above Plasterboard	No Insulation	No

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
PDR	1	Exhaust Fans	0	Sealed
Ensuite	1	Exhaust Fans	0	Sealed
Bath	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Roof Tiles	No Insulation, Only an Air Gap	Dark

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Roof Tiles

No Insulation, Dark
Only an Air Gap

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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