

# Nationwide House Energy Rating Scheme\* Certificate



Certificate number: **0004905105-01**

Certificate Date: **29 Jun 2020**

★ 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: **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 v4.3.0.2f (3.13)**

AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit Lot 2, 312 Warringah Road**

Suburb: **Frenchs Forest**

State: **NSW**

Postcode: **2086**

Type: **New Dwelling**

NCC Class: **1A**

NatHERS

climate zone: **56**

Lot/DP

number: **100/592389**

Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**

**Corrugated Iron**

**Concrete Slab on Ground**

Insulation:

**R2.5 wall insulation**

**R4.0 ceiling insulation**

**No floor insulation**

Glazing:

**BRD-001-01 A ESS Sliding Window (52mm) SG 3Clr**

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

Conditioned: **271.0**

Unconditioned: **61.0**

Garage: **37.0**

TOTAL: **333.0**

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

Heating: **37.4**

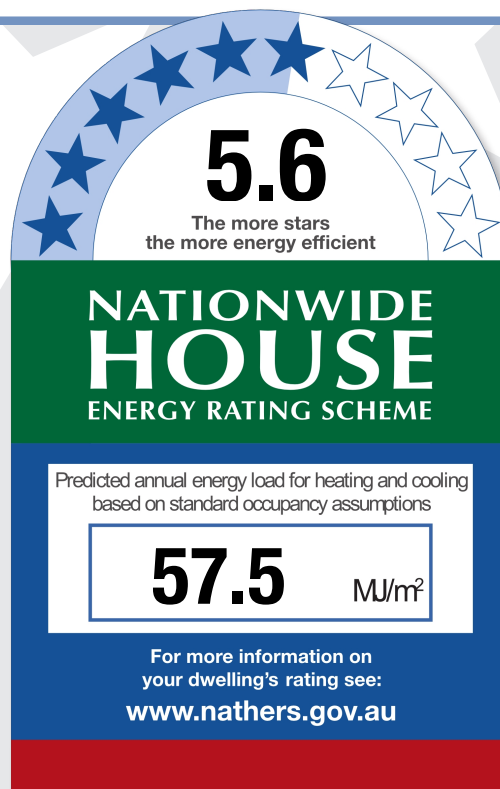
Cooling: **20.0**

TOTAL: **57.5**

### Plan documents

Plan ref/date: **312 Warringah Road**

Prepared by: **EF RA**



### 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
BRD-001-01 A	BRD-001-01 A ESS Sliding Window (52mm) SG 3Clr	6.4	0.76
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70
BRD-112-01 A	BRD-112-01 A ESS Awning 52 SG 4mmClr	6.5	0.67
BRD-063-16 A	BRD-063-16 A SIG Fixed Lite (67mm) SG 4SP10	4.1	0.66
BRD-033-13 A	BRD-033-13 A ESS Sliding Door (80mm) SG 4SP10	4.3	0.63
BRD-006-20 A	BRD-006-20 A SIG Bi Fold Door (100mm) SG 4SP10	4.6	0.52
BRD-001-20 A	BRD-001-20 A ESS Sliding Window (52mm) SG 4mmEnTec(SP10)	4.6	0.67

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Garage 1	BRD-001-01 A	n/a	600	2410	N	No Shading
Laundry/Bath	ALM-002-01 A	n/a	2400	900	N	No Shading
Laundry/Bath	BRD-112-01 A	n/a	2400	610	N	No Shading
Guest Bedroom	BRD-001-01 A	n/a	1200	2410	E	No Shading
Guest Bedroom	BRD-001-01 A	n/a	1200	2410	S	No Shading
Bathroom	BRD-001-01 A	n/a	600	1810	S	No Shading
Entry/Stairs	BRD-112-01 A	n/a	2700	605	E	No Shading
Entry/Stairs	ALM-002-01 A	n/a	2700	1200	E	No Shading
Entry/Stairs	BRD-112-01 A	n/a	2700	605	E	No Shading
Entry/Stairs	BRD-063-16 A	n/a	1400	2410	S	No Shading
Kitchen/Living	BRD-033-13 A	n/a	2400	4450	S	No Shading
Kitchen/Living	BRD-033-13 A	n/a	2400	4450	N	No Shading
Kitchen/Living	BRD-006-20 A	n/a	1500	2880	N	No Shading
Bedroom 2	BRD-001-01 A	n/a	1200	1930	N	No Shading
Bedroom 1	BRD-001-01 A	n/a	1200	2410	S	No Shading
Master Suite	BRD-001-01 A	n/a	2100	2410	E	No Shading
Master Suite	BRD-001-01 A	n/a	1200	2410	N	No Shading
Ensuite M	BRD-001-01 A	n/a	1200	2410	N	No Shading
Bathroom	BRD-001-01 A	n/a	1200	1810	S	No Shading
Rumpus	BRD-001-20 A	n/a	1200	2410	E	No Shading
Rumpus	BRD-001-20 A	n/a	1200	2410	S	No Shading
Upper Hall	BRD-063-16 A	n/a	2400	2410	E	No Shading
Upper Hall	BRD-063-16 A	n/a	2400	2410	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						

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## Building features continued

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	No insulation	No
EW-2	Single Skin Brick	No insulation	No
EW-3	Fibro Cavity Panel Direct Fix	Bulk Insulation R2.5	No
EW-4	Brick Veneer	Bulk Insulation R2.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Garage 1	EW-1	6000	3185	N	No	600
Garage 1	EW-2	6295	3185	E	No	600
Garage 1	EW-1	700	3185	W	No	600
Laundry/Bath	EW-3	3000	2660	N	No	100
Laundry/Bath	EW-4	795	2660	N	No	1300
Laundry/Bath	EW-4	2395	2660	W	No	9600
Guest Bedroom	EW-4	600	2660	E	No	400
Guest Bedroom	EW-3	2500	2660	E	No	100
Guest Bedroom	EW-4	900	2660	E	No	100
Guest Bedroom	EW-4	4995	2660	S	No	100
Guest Bedroom	EW-4	1100	2660	N	No	9500
Bathroom	EW-4	2095	2660	S	No	100
Bathroom	EW-4	1400	2660	W	No	100
Entry/Stairs	EW-4	2590	2700	E	No	1500
Entry/Stairs	EW-3	2690	2660	S	No	100
Kitchen/Living	EW-4	10095	2660	S	No	600
Kitchen/Living	EW-4	8400	2660	W	No	600
Kitchen/Living	EW-4	9000	2660	N	No	4500
Bedroom 2	EW-4	3700	2660	N	No	600
Bedroom 2	EW-4	4195	2660	W	No	600
Bedroom 1	EW-4	4795	2660	S	No	600
Bedroom 1	EW-4	4195	2660	W	No	600
Master Suite	EW-4	5495	2660	E	No	600
Master Suite	EW-4	4695	2660	N	No	600
Ensuite M	EW-4	2395	2660	W	No	600
Ensuite M	EW-4	500	2660	N	No	600
Ensuite M	EW-3	2595	2660	N	No	600
WIR M	EW-4	1990	2660	N	No	600
Bathroom	EW-4	1400	2660	W	No	600
Bathroom	EW-4	2495	2660	S	No	600
Rumpus	EW-4	1100	2660	N	No	8800
Rumpus	EW-4	600	2660	E	No	1000
Rumpus	EW-3	2500	2660	E	No	600
Rumpus	EW-4	900	2660	E	No	600
Rumpus	EW-4	4595	2660	S	No	600
Upper Hall	EW-4	2690	2660	E	No	2100
Upper Hall	EW-4	2690	2660	S	No	600

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## Building features continued

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	37.0	Bulk Insulation, No Air Gap R2.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	197.0	No insulation	No

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Garage 1	Concrete Slab on Ground 100mm	37.3	None	No Insulation	Bare
Laundry/Bath	Concrete Slab on Ground 100mm	8.8	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab on Ground 100mm	6.7	None	No Insulation	Ceramic Tiles 8mm
Guest Bedroom	Concrete Slab on Ground 100mm	19.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bathroom	Concrete Slab on Ground 100mm	4.8	None	No Insulation	Ceramic Tiles 8mm
Entry/Stairs	Concrete Slab on Ground 100mm	30.8	None	No Insulation	20/80 Carpet 10mm/Ceramic
Kitchen/Living	Concrete Slab on Ground 100mm	86.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2/Kitchen/Living	Timber Above Plasterboard 19mm	19.7		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	19.8		No Insulation	Carpet+Rubber Underlay 18mm
Master Suite/Garage 1	Timber Above Plasterboard 19mm	25.4		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Ensuite M/Laundry/Bath	Timber Above Plasterboard 19mm	7.2		No Insulation	Ceramic Tiles 8mm
WIR M/Garage 1	Timber Above Plasterboard 19mm	5.8		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
WIR M/Laundry/Bath	Timber Above Plasterboard 19mm	1.6		No Insulation	Carpet+Rubber Underlay 18mm
WIR M/Kitchen/Living	Timber Above Plasterboard 19mm	5.1		No Insulation	Carpet+Rubber Underlay 18mm
WIR M/Kitchen/Living	Timber Above Plasterboard 19mm	0.8		No Insulation	Carpet+Rubber Underlay 18mm
Bathroom/Guest Bedroom	Timber Above Plasterboard 19mm	1.5		No Insulation	Ceramic Tiles 8mm
Bathroom/Bathroom	Timber Above Plasterboard 19mm	4.8		No Insulation	Ceramic Tiles 8mm
Bathroom/Entry/Stairs	Timber Above Plasterboard 19mm	3.9		No Insulation	Ceramic Tiles 8mm
Rumpus/Guest Bedroom	Timber Above Plasterboard 19mm	18.1		No Insulation	Carpet+Rubber Underlay 18mm
Upper Hall/Garage	Timber Above Plasterboard 19mm	1.6		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Upper Hall/Kitchen/Living	Timber Above Plasterboard 19mm	1.8		No Insulation	Carpet+Rubber Underlay 18mm
Upper Hall/Entry/Stairs	Timber Above Plasterboard 19mm	26.8		No Insulation	Carpet+Rubber Underlay 18mm

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

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## Building features continued

Upper Hall/Kitchen/Living	Timber Above Plasterboard 19mm	1.6	No Insulation	Carpet+Rubber Underlay 18mm
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## Ceiling type

Location	Construction	Added insulation	Roof space above
Garage 1	Plasterboard	No insulation	Yes
Garage 1	Timber Above Plasterboard	Bulk Insulation R2.5	No
Laundry/Bath	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Guest Bedroom	Timber Above Plasterboard	No Insulation	No
Bathroom	Timber Above Plasterboard	No Insulation	No
Entry/Stairs	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Plasterboard	Bulk Insulation R4	Yes
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Bedroom 2	Plasterboard	Bulk Insulation R4	Yes
Bedroom 1	Plasterboard	Bulk Insulation R4	Yes
Master Suite	Plasterboard	Bulk Insulation R4	Yes
Ensuite M	Plasterboard	Bulk Insulation R4	Yes
WIR M	Plasterboard	Bulk Insulation R4	Yes
Bathroom	Plasterboard	Bulk Insulation R4	Yes
Rumpus	Plasterboard	Bulk Insulation R4	Yes
Upper Hall	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	Roof colour
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### Building features continued

	insulation
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.3
	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)