

# Nationwide House Energy Rating Scheme\* Certificate



Certificate number: **0004389201**

Certificate Date: **25 Nov 2019**

★ Star rating: **5.1**

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: **97 Waterview Street**

Suburb: **Mona Vale**

State: **NSW**

Postcode: **2103**

Type: **New Dwelling**

NCC Class: **1A**

Lot/DP

number: **8/7953**

NatHERS  
climate zone: **56**

Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**

**Roof Tiles**

**Suspended Timber Floor**

Insulation:

**R1.5 wall insulation**

**R3.5 ceiling insulation**

**No floor insulation**

Glazing:

**STG-007-01 A Aluminium Sliding**

**Window SG 3Clr**

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

Conditioned: **242.0**

Unconditioned: **49.0**

Garage: **30.0**

TOTAL: **291.0**

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

Heating: **39.5**

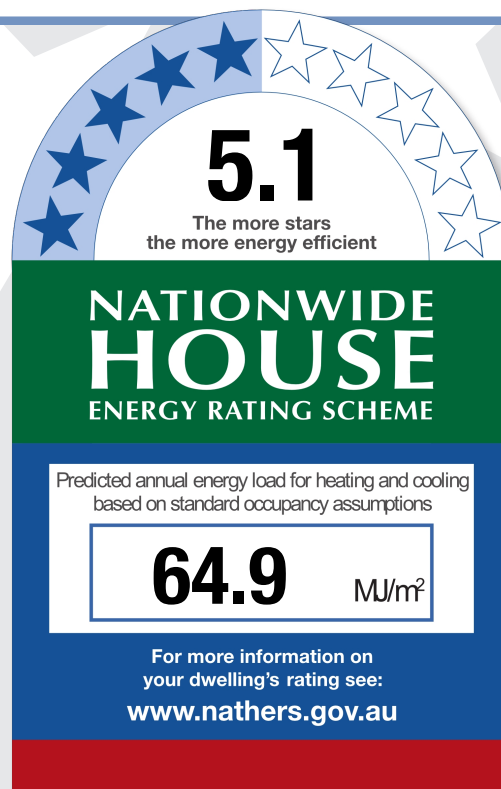
Cooling: **25.3**

TOTAL: **64.9**

### Plan documents

Plan ref/date: **29913901**

Prepared by: **PG**



### Ceiling penetrations

(see following pages for details)

Sealed: **4**

Unsealed: **0**

TOTAL:\*\* **4**

\*\*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: **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
STG-005-02 A	STG-005-02 A Aluminium Sliding Door SG 5Clr	6.3	0.72
STG-007-01 A	STG-007-01 A Aluminium Sliding Window SG 3Clr	6.3	0.73
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.4	0.56
STG-002-01 A	STG-002-01 A Aluminium Awning Window SG 3Clr	6.5	0.65

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
FAMILY MEALS KI	STG-005-02 A	n/a	2400	3200	NE	No Shading
FAMILY MEALS KI	STG-005-02 A	n/a	2400	3200	NE	No Shading
FAMILY MEALS KI	STG-007-01 A	n/a	2000	2100	SE	No Shading
FAMILY MEALS KI	STG-007-01 A	n/a	2000	800	NW	No Shading
FAMILY MEALS KI	STG-007-01 A	n/a	2000	800	NW	No Shading
FAMILY MEALS KI	STG-007-01 A	n/a	750	800	NW	No Shading
BUTLERS	STG-007-01 A	n/a	600	1810	SE	No Shading
LAUNDRY	TIM-001-01 W	n/a	2400	890	SE	No Shading
HOME THEATRE	STG-007-01 A	n/a	500	1800	NW	No Shading
HOME THEATRE	STG-007-01 A	n/a	500	1800	NW	No Shading
POWDER	STG-002-01 A	n/a	500	600	NW	No Shading
STUDY GUEST	STG-002-01 A	n/a	2000	800	SW	No Shading
STUDY GUEST	STG-002-01 A	n/a	2000	800	SW	No Shading
LEISURE	STG-007-01 A	n/a	1200	1800	NE	No Shading
LEISURE	STG-007-01 A	n/a	600	1800	NW	No Shading
LEISURE	STG-007-01 A	n/a	600	1800	NW	No Shading
LEISURE	STG-007-01 A	n/a	1250	800	NW	No Shading
BED 2	STG-007-01 A	n/a	1200	1800	NE	No Shading
UF BATH	STG-002-01 A	n/a	1300	800	SE	No Shading
BED 3	STG-007-01 A	n/a	1200	1800	SE	No Shading
BED 4	STG-002-01 A	n/a	800	2400	SW	No Shading
ENSUITE	STG-007-01 A	n/a	1200	1800	NW	No Shading
BED 1 HALL	STG-007-01 A	n/a	1200	1500	NW	No Shading
BED 1	STG-002-01 A	n/a	1200	2400	SW	No Shading
BED 1	STG-002-01 A	n/a	1200	800	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	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
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## Building features continued

no.

None Present

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No
EW-2	Brick Veneer	No insulation	No
EW-3	Single Skin Brick	No insulation	No
EW-4	Fibro Cavity Panel Direct Fix	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
FAMILY MEALS KI	EW-1	9400	2750	NE	No	4400
FAMILY MEALS KI	EW-1	6295	2750	SE	No	100
FAMILY MEALS KI	EW-1	7195	2750	NW	No	100
BUTLERS	EW-1	2390	2750	SE	No	100
LAUNDRY	EW-1	1990	2750	SE	No	100
HOME THEATRE	EW-1	4590	2750	NW	No	100
POWDER	EW-1	1990	2750	NW	No	100
STUDY GUEST	EW-1	1900	2750	SE	No	7900
STUDY GUEST	EW-1	3500	2750	SW	No	100
STUDY GUEST	EW-1	3395	2750	NW	No	100
FAMILY MEALS KI	EW-1	1690	2750	SW	No	1900
GARAGE	EW-2	1400	2825	NE	No	600
GARAGE	EW-2	5500	2825	SE	No	600
GARAGE	EW-3	5600	2825	SW	No	600
GARAGE	EW-2	900	2825	NW	No	5300
LEISURE	EW-4	4095	2450	NE	No	600
LEISURE	EW-1	7195	2450	NW	No	600
BED 2 WIR	EW-4	1290	2450	NE	No	600
BED 2	EW-4	3995	2450	NE	No	600
BED 2	EW-1	3495	2450	SE	No	600
UF BATH	EW-1	2290	2450	SE	No	600
BED 3	EW-1	3590	2450	SE	No	600
BED 4	EW-1	1195	2450	SE	No	600
BED 4	EW-4	2500	2450	SE	No	600
BED 4	EW-4	4195	2450	SW	No	600
ENSUITE SHO	EW-1	1090	2450	NW	No	600
ENSUITE	EW-1	2390	2450	NW	No	600
BED 1 HALL	EW-1	2190	2450	NW	No	600
BED 1	EW-4	3200	2450	SE	No	600
BED 1	EW-1	900	880	SE	No	0
BED 1	EW-4	900	1570	SE	No	600
BED 1	EW-1	5200	880	SW	No	0
BED 1	EW-4	5200	1570	SW	No	600
BED 1	EW-1	2100	880	NW	No	0

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BED 1	EW-4	2100	1571	NW	No	600
BED 1	EW-1	2195	2450	NW	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	205.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	41.0	Bulk Insulation, No Air Gap R1.5	No
IW-3 - Cavity wall, direct fix plasterboard, single gap	28.0	Bulk Insulation, No Air Gap R2	No

## Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
FAMILY MEALS KI	Waffle pod slab 225 mm 100mm	63.1	None	Waffle Pod 225mm	20/80 Carpet 10mm/Ceramic
BUTLERS	Waffle pod slab 225 mm 100mm	4.1	None	Waffle Pod 225mm	Ceramic Tiles 8mm
WIP	Waffle pod slab 225 mm 100mm	4.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
LAUNDRY	Waffle pod slab 225 mm 100mm	7.9	None	Waffle Pod 225mm	Ceramic Tiles 8mm
HOME THEATRE	Waffle pod slab 225 mm 100mm	15.6	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
POWDER	Waffle pod slab 225 mm 100mm	4.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
STUDY GUEST	Waffle pod slab 225 mm 100mm	11.7	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
FAMILY MEALS KI	Waffle pod slab 225 mm 100mm	16.1	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
GARAGE	Waffle pod slab 175 mm 100mm	30.4	None	Waffle Pod 175mm	Bare
LEISURE/FAMILY MEALS KI	Timber Above Plasterboard 19mm	32.5		No Insulation	Carpet+Rubber Underlay 18mm
LEISURE/WIP	Timber Above Plasterboard 19mm	0.5		No Insulation	Carpet+Rubber Underlay 18mm
LEISURE/FAMILY MEALS KI	Timber Above Plasterboard 19mm	7.7		No Insulation	Carpet+Rubber Underlay 18mm
BED 2 WIR/FAMILY MEALS KI	Timber Above Plasterboard 19mm	2.8		No Insulation	Carpet+Rubber Underlay 18mm
BED 2/FAMILY MEALS KI	Timber Above Plasterboard 19mm	13.7		No Insulation	Carpet+Rubber Underlay 18mm
UF WC/FAMILY MEALS KI	Timber Above Plasterboard 19mm	2.5		No Insulation	Ceramic Tiles 8mm
UF BATH/FAMILY MEALS KI	Timber Above Plasterboard 19mm	6.3		No Insulation	Ceramic Tiles 8mm
BED 3/FAMILY MEALS KI	Timber Above Plasterboard 19mm	3.4		No Insulation	Carpet+Rubber Underlay 18mm
BED 3/BUTLERS	Timber Above Plasterboard	4.2		No Insulation	Carpet+Rubber

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	19mm			Underlay 18mm
BED 3/WIP	Timber Above Plasterboard 19mm	4.2	No Insulation	Carpet+Rubber Underlay 18mm
BED 3/LAUNDRY	Timber Above Plasterboard 19mm	2.8	No Insulation	Carpet+Rubber Underlay 18mm
BED 4/LAUNDRY	Timber Above Plasterboard 19mm	5.3	No Insulation	Carpet+Rubber Underlay 18mm
BED 4/GARAGE	Timber Above Plasterboard 19mm	9.8	Bulk Insulation R1.5	Carpet+Rubber Underlay 18mm
ENSUITE SHO/HOME THEATRE	Timber Above Plasterboard 19mm	1.9	No Insulation	Ceramic Tiles 8mm
ENSUITE WC/HOME THEATRE	Timber Above Plasterboard 19mm	1.5	No Insulation	Ceramic Tiles 8mm
ENSUITE/HOME THEATRE	Timber Above Plasterboard 19mm	8.0	No Insulation	Ceramic Tiles 8mm
BED 1 WIR/HOME THEATRE	Timber Above Plasterboard 19mm	2.5	No Insulation	Carpet+Rubber Underlay 18mm
BED 1 WIR/POWDER	Timber Above Plasterboard 19mm	1.3	No Insulation	Carpet+Rubber Underlay 18mm
BED 1 WIR/FAMILY MEALS KI	Timber Above Plasterboard 19mm	2.3	No Insulation	Carpet+Rubber Underlay 18mm
BED 1 HALL/HOME THEATRE	Timber Above Plasterboard 19mm	1.1	No Insulation	Carpet+Rubber Underlay 18mm
BED 1 HALL/POWDER	Timber Above Plasterboard 19mm	1.1	No Insulation	Carpet+Rubber Underlay 18mm
BED 1 ENT/FAMILY MEALS KI	Timber Above Plasterboard 19mm	1.0	No Insulation	Carpet+Rubber Underlay 18mm
BED 1/POWDER	Timber Above Plasterboard 19mm	2.1	No Insulation	Carpet+Rubber Underlay 18mm
BED 1/STUDY GUEST	Timber Above Plasterboard 19mm	11.8	No Insulation	Carpet+Rubber Underlay 18mm
BED 1/FAMILY MEALS KI	Timber Above Plasterboard 19mm	5.0	No Insulation	Carpet+Rubber Underlay 18mm
BED 1	Suspended Timber Floor 19mm	3.2	Totally Open	No Insulation
				Carpet+Rubber Underlay 18mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
FAMILY MEALS KI	Timber Above Plasterboard	No Insulation	No
BUTLERS	Timber Above Plasterboard	No Insulation	No
WIP	Timber Above Plasterboard	No Insulation	No
LAUNDRY	Timber Above Plasterboard	No Insulation	No
HOME THEATRE	Timber Above Plasterboard	No Insulation	No
POWDER	Timber Above Plasterboard	No Insulation	No
STUDY GUEST	Timber Above Plasterboard	No Insulation	No
FAMILY MEALS KI	Timber Above Plasterboard	No Insulation	No
GARAGE	Plasterboard	No insulation	Yes

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GARAGE	Timber Above Plasterboard	Bulk Insulation R1.5	No
LEISURE	Plasterboard	Bulk Insulation R3.5	Yes
BED 2 WIR	Plasterboard	Bulk Insulation R3.5	Yes
BED 2	Plasterboard	Bulk Insulation R3.5	Yes
UF WC	Plasterboard	Bulk Insulation R3.5	Yes
UF BATH	Plasterboard	Bulk Insulation R3.5	Yes
BED 3	Plasterboard	Bulk Insulation R3.5	Yes
BED 4	Plasterboard	Bulk Insulation R3.5	Yes
ENSUITE SHO	Plasterboard	Bulk Insulation R3.5	Yes
ENSUITE WC	Plasterboard	Bulk Insulation R3.5	Yes
ENSUITE	Plasterboard	Bulk Insulation R3.5	Yes
BED 1 WIR	Plasterboard	Bulk Insulation R3.5	Yes
BED 1 HALL	Plasterboard	Bulk Insulation R3.5	Yes
BED 1 ENT	Plasterboard	Bulk Insulation R3.5	Yes
BED 1	Plasterboard	Bulk Insulation R3.5	Yes

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
POWDER	1	Exhaust Fans	300	Sealed
UF WC	1	Exhaust Fans	300	Sealed
UF BATH	1	Exhaust Fans	300	Sealed
ENSUITE WC	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
Roof Tiles	Foil, Gap Above, Reflective Side	Dark

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### Building features continued

Down, Anti-glare  
Up



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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)