

# Nationwide House Energy Rating Scheme\* Certificate



Certificate number: **0003945383-02**

Certificate Date: **19 Jun 2019**

★ 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: **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: **Laurel Chase**

Suburb: **Forestville**

State: **NSW**

Postcode: **2087**

Type: **New Dwelling**

NCC Class: **1A**

NatHERS

climate zone: **56**

Lot/DP

number: **33/24593**

Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**

**Roof Tiles**

**Waffle pod slab 225 mm**

Insulation:

**R2.2 wall insulation**

**R4.0 ceiling insulation**

**No floor insulation**

Glazing:

**STG-002-01 A Aluminium Awning**

**Window SG 3Clr**

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

Conditioned: **236.0**

Unconditioned: **51.0**

Garage: **37.0**

TOTAL: **287.0**

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

Heating: **38.0**

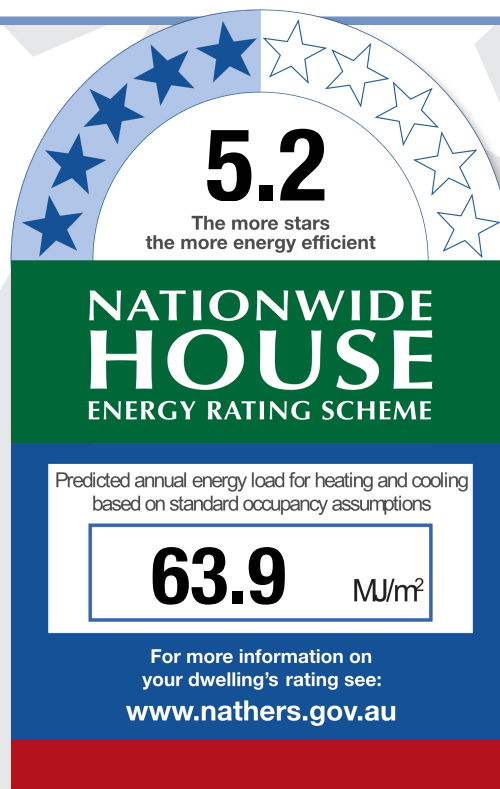
Cooling: **25.9**

TOTAL: **63.9**

### Plan documents

Plan ref/date: **Martin 29913633**

Prepared by: **PG MD**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**

Unsealed: **0**

TOTAL:\*\* **2**

\*\*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-002-01 A	STG-002-01 A Aluminium Awning Window SG 3Clr	6.5	0.65
STG-007-01 A	STG-007-01 A Aluminium Sliding Window SG 3Clr	6.3	0.73
STG-005-02 A	STG-005-02 A Aluminium Sliding Door SG 5Clr	6.3	0.72

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Living	STG-002-01 A	n/a	1800	800	N	No Shading
Living	STG-002-01 A	n/a	1800	800	N	No Shading
Living	STG-002-01 A	n/a	1800	800	W	No Shading
Living	STG-002-01 A	n/a	1800	800	W	No Shading
Home Theatre	STG-002-01 A	n/a	1800	800	W	No Shading
Home Theatre	STG-002-01 A	n/a	1800	800	W	No Shading
Kitchen/Rumpus	STG-007-01 A	n/a	2000	2400	S	No Shading
Kitchen/Rumpus	STG-007-01 A	n/a	2000	2400	S	No Shading
Kitchen/Rumpus	STG-005-02 A	n/a	2400	3200	W	No Shading
Kitchen/Rumpus	STG-005-02 A	n/a	2400	3200	S	No Shading
Kitchen/Rumpus	STG-002-01 A	n/a	2000	800	W	No Shading
Kitchen/Rumpus	STG-002-01 A	n/a	2000	800	W	No Shading
Bedroom 1	STG-002-01 A	n/a	1200	2600	N	No Shading
Ensuite 1	STG-007-01 A	n/a	1200	1500	W	No Shading
Bedroom 2	STG-002-01 A	n/a	1200	2100	N	No Shading
Bath	STG-007-01 A	n/a	1000	800	E	No Shading
Bedroom 3	STG-007-01 A	n/a	1200	1800	E	No Shading
Bedroom 4	STG-007-01 A	n/a	1200	1800	W	No Shading
Leisure/Stairs	STG-007-01 A	n/a	1200	2600	W	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	No insulation	No
EW-2	Single Skin Brick	No insulation	No
EW-3	Brick Veneer	Bulk Insulation R2.2	No
EW-4	Fibro Cavity Panel Direct Fix	Bulk Insulation R2.2	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves
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						(mm)
Garage 1	EW-1	5900	2675	E	No	100
Garage 1	EW-1	600	2675	S	No	100
Garage 1	EW-1	1300	2675	W	No	5900
Garage 1	EW-2	6400	2675	N	No	100
Living	EW-3	3800	2600	N	No	100
Living	EW-3	2300	2600	E	No	8500
Living	EW-3	600	2600	S	No	100
Living	EW-3	4400	2600	W	No	100
Home Theatre	EW-3	4790	2600	W	No	100
Laundry	EW-3	1790	3114	E	No	100
Pantry	EW-3	2690	3114	E	No	100
Entry	EW-3	1990	2600	N	No	2400
Kitchen/Rumpus	EW-3	6695	3114	E	No	100
Kitchen/Rumpus	EW-3	7300	3114	S	No	100
Kitchen/Rumpus	EW-3	4200	3114	W	No	3800
Kitchen/Rumpus	EW-3	3700	2600	S	No	4300
Kitchen/Rumpus	EW-3	4695	2600	W	No	100
Bedroom 1	EW-3	4195	1509	N	No	0
Bedroom 1	EW-4	4195	1091	N	No	700
Bedroom 1	EW-4	3100	2600	E	No	700
WIR 1	EW-3	4595	1509	W	No	0
WIR 1	EW-4	4595	1091	W	No	700
WIR 1	EW-3	1295	1509	N	No	0
WIR 1	EW-4	1295	1091	N	No	700
Ensuite 1	EW-4	400	2600	S	No	7500
Ensuite 1	EW-3	2495	1959	W	No	0
Ensuite 1	EW-4	2495	641	W	No	700
Bedroom 2	EW-4	4295	2600	N	No	700
Bedroom 2	EW-4	4195	2600	E	No	700
Bath	EW-4	3390	2600	E	No	700
Bedroom 3	EW-4	3195	2600	E	No	700
Bedroom 3	EW-4	4495	2600	S	No	700
WIR 4	EW-4	1890	2600	S	No	700
Bedroom 4	EW-4	3395	2600	S	No	700
Bedroom 4	EW-3	3200	1959	W	No	0
Bedroom 4	EW-4	3200	641	W	No	700
Bedroom 4	EW-4	400	2600	N	No	11400
Leisure/Stairs	EW-4	3590	2600	W	No	1100

## Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	27.0	Bulk Insulation, No Air Gap R2.2	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	194.0	No insulation	No
	32.0	Bulk Insulation, No Air Gap R1.7	No

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## Building features continued

IW-3 - Cavity wall, direct fix plasterboard, single gap

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Garage 1	Waffle pod slab 175 mm 100mm	37.3	None	Waffle Pod 175mm	Bare
Living	Waffle pod slab 225 mm 100mm	16.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Home Theatre	Waffle pod slab 225 mm 100mm	17.2	None	Waffle Pod 225mm	Carpet 10mm
Laundry	Waffle pod slab 225 mm 100mm	6.2	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Pantry	Waffle pod slab 225 mm 100mm	6.4	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Entry	Waffle pod slab 225 mm 100mm	18.1	None	Waffle Pod 225mm	Ceramic Tiles 8mm
PDR	Waffle pod slab 225 mm 100mm	2.9	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Kitchen/Rumpus	Waffle pod slab 225 mm 100mm	70.8	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bedroom 1/Garage	Timber Above Plasterboard 100mm	1.4		No Insulation	Carpet 10mm
Bedroom 1/Living	Timber Above Plasterboard 100mm	6.6		No Insulation	Carpet 10mm
Bedroom 1/Home Theatre	Timber Above Plasterboard 100mm	0.7		No Insulation	Carpet 10mm
Bedroom 1/Entry	Timber Above Plasterboard 100mm	5.8		No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 100mm	4.7	Open	No Insulation	Carpet 10mm
WIR 1/Living	Timber Above Plasterboard 19mm	7.0		No Insulation	Carpet+Rubber Underlay 18mm
Ensuite 1/Home Theatre	Timber Above Plasterboard 19mm	8.8		No Insulation	Ceramic Tiles 8mm
Bedroom 2/Garage	Timber Above Plasterboard 19mm	15.1		No Insulation	Carpet 10mm
Bedroom 2/Laundry	Timber Above Plasterboard 19mm	0.8		No Insulation	Carpet 10mm
Bath/Laundry	Timber Above Plasterboard 19mm	3.5		No Insulation	Ceramic Tiles 8mm
Bath/Pantry	Timber Above Plasterboard 19mm	3.0		No Insulation	Ceramic Tiles 8mm
Bath/Entry	Timber Above Plasterboard 19mm	0.7		No Insulation	Ceramic Tiles 8mm
Bath/PDR	Timber Above Plasterboard 19mm	0.6		No Insulation	Ceramic Tiles 8mm
Bedroom 3/Kitchen/Rumpus	Timber Above Plasterboard 19mm	11.8		No Insulation	Carpet 10mm
WIR 4/Kitchen/Rumpus	Timber Above Plasterboard 19mm	2.3		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 4/Kitchen/Rumpus	Timber Above Plasterboard 19mm	10.6		No Insulation	Carpet 10mm
WC/Kitchen/Rump	Timber Above Plasterboard	2.1		No Insulation	Ceramic Tiles

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## Building features continued

us	19mm			8mm
Linen/Kitchen/Rumpus	Timber Above Plasterboard 19mm	2.7	No Insulation	Carpet+Rubber Underlay 18mm
Leisure/Stairs/Garage 1	Timber Above Plasterboard 19mm	1.2	No Insulation	Carpet 10mm
Leisure/Stairs/Home Theatre	Timber Above Plasterboard 19mm	6.7	No Insulation	Carpet 10mm
Leisure/Stairs/Entry	Timber Above Plasterboard 19mm	11.6	No Insulation	Carpet 10mm
Leisure/Stairs/PDR	Timber Above Plasterboard 19mm	2.5	No Insulation	Carpet 10mm
Leisure/Stairs/Kitchen/Rumpus	Timber Above Plasterboard 19mm	6.0	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
Living	Plasterboard	Bulk Insulation R4	Yes
Living	Timber Above Plasterboard	No Insulation	No
Home Theatre	Plasterboard	Bulk Insulation R4	Yes
Home Theatre	Timber Above Plasterboard	No Insulation	No
Laundry	Plasterboard	Bulk Insulation R4	Yes
Laundry	Timber Above Plasterboard	No Insulation	No
Pantry	Plasterboard	Bulk Insulation R4	Yes
Pantry	Timber Above Plasterboard	No Insulation	No
Entry	Timber Above Plasterboard	No Insulation	No
PDR	Timber Above Plasterboard	No Insulation	No
Kitchen/Rumpus	Plasterboard	Bulk Insulation R4	Yes
Kitchen/Rumpus	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R4	Yes
WIR 1	Plasterboard	Bulk Insulation R4	Yes
Ensuite 1	Plasterboard	Bulk Insulation R4	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4	Yes
Bath	Plasterboard	Bulk Insulation R4	Yes
Bedroom 3	Plasterboard	Bulk Insulation R4	Yes
WIR 4	Plasterboard	Bulk Insulation R4	Yes
Bedroom 4	Plasterboard	Bulk Insulation R4	Yes

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WC	Plasterboard	Bulk Insulation R4	Yes
Linen	Plasterboard	Bulk Insulation R4	Yes
Leisure/Stairs	Plasterboard	Bulk Insulation R4	Yes

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
PDR	1	Exhaust Fans	300	Sealed
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 Down, Anti-glare Up	Dark
Corrugated Iron	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)