

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004676466

Certificate Date: 17 Mar 2020

★ Star rating: 5.9



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 v4.4.0.0 (3.21)**

AAO: **BDAV**

Overview

Dwelling details

Street: **24 Baz Retreat**

Suburb: **Warriewood**

State: **NSW**

Postcode: **2102**

Type: **New Dwelling**

NCC Class: **1A**

NatHERS

climate zone: **56**

Lot/DP

number: **19/270907**

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

R3.5 ceiling insulation

No floor insulation

Glazing:

STG-007-01 A Aluminium Sliding

Window SG 3Clr

Net floor area (m²)

Conditioned: **147.0**

Unconditioned: **45.0**

Garage: **31.0**

TOTAL: **192.0**

Annual thermal performance loads (MJ/m²)

Heating: **39.2**

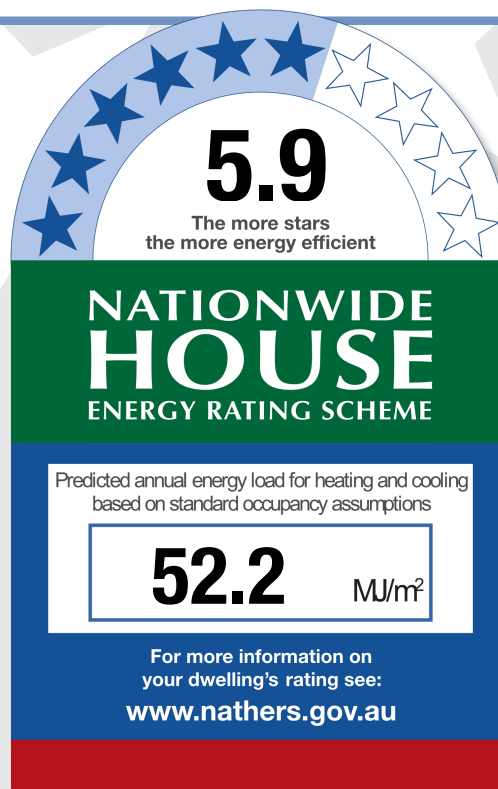
Cooling: **13.0**

TOTAL: **52.2**

Plan documents

Plan ref/date: **29914083**

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

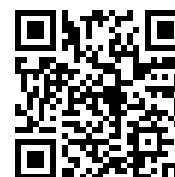
Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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
STG-002-01 A	STG-002-01 A Aluminium Awning Window SG 3Clr	6.5	0.65
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.4	0.56

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
DINING FAMILY	STG-005-02 A	n/a	2100	2300	NE	No Shading
DINING FAMILY	STG-007-01 A	n/a	600	1400	NW	No Shading
DINING FAMILY	STG-002-01 A	n/a	1800	2600	NE	No Shading
DINING FAMILY	STG-007-01 A	n/a	1000	2400	NW	No Shading
DINING FAMILY	STG-007-01 A	n/a	770	800	NW	No Shading
LAUNDRY	TIM-001-01 W	n/a	900	890	NW	No Shading
POWDER	STG-007-01 A	n/a	1800	800	NW	No Shading
LIVING	STG-002-01 A	n/a	1800	800	SW	No Shading
LIVING	STG-002-01 A	n/a	1800	800	SW	No Shading
ENSUITE	STG-007-01 A	n/a	1000	1200	NW	No Shading
BED 1	STG-007-01 A	n/a	1000	2100	NE	No Shading
BED 2	STG-007-01 A	n/a	1200	1800	SE	No Shading
BED 4	STG-002-01 A	n/a	1300	1800	SW	No Shading
BED 3	STG-002-01 A	n/a	1200	2400	SW	No Shading
UF BATH	STG-007-01 A	n/a	1200	800	NW	No Shading
UF WC	STG-007-01 A	n/a	1200	800	NW	No Shading
UF HALL	STG-007-01 A	n/a	1230	800	NW	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	Brick Veneer	Bulk Insulation R2	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 R2	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
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DINING FAMILY K	EW-1	3800	2600	NE	No	3100
DINING FAMILY K	EW-1	2500	2600	NW	No	4400
DINING FAMILY K	EW-1	4100	2600	NE	No	600
DINING FAMILY K	EW-1	5495	2600	SE	No	100
DINING FAMILY K	EW-1	5195	2600	NW	No	100
WIP	EW-1	1300	2600	NE	No	100
WIP	EW-1	2395	2600	SE	No	100
LAUNDRY	EW-1	1790	2600	NW	No	100
POWDER	EW-1	1590	2600	NW	No	100
LIVING	EW-1	1100	2600	SE	No	1800
LIVING	EW-1	2700	2600	SW	No	100
LIVING	EW-1	3500	2600	NW	No	100
LIVING	EW-1	600	2600	NE	No	100
ENTRY HALL	EW-1	1490	2600	SW	No	1100
GARAGE	EW-2	5595	3114	SE	No	100
GARAGE	EW-3	5595	3114	SW	No	100
ENSUITE	EW-4	1995	2450	NE	No	600
ENSUITE	EW-1	3195	2450	NW	No	600
BED 1 WIR	EW-4	1890	2450	NE	No	600
BED 1	EW-4	3995	2450	NE	No	600
BED 1	EW-1	2900	2450	SE	No	600
BED 1	EW-4	995	2450	SE	No	600
BED 2	EW-4	3290	2450	SE	No	600
BED 4	EW-4	3795	2450	SE	No	600
BED 4	EW-1	3395	685	SW	No	0
BED 4	EW-4	3395	1765	SW	No	600
BED 3	EW-1	595	685	SW	No	0
BED 3	EW-4	595	1765	SW	No	1700
BED 3	EW-1	1100	855	SE	No	0
BED 3	EW-4	1100	1595	SE	No	4600
BED 3	EW-1	3900	855	SW	No	0
BED 3	EW-4	3900	1595	SW	No	600
BED 3	EW-4	3195	2450	NW	No	600
UF BATH	EW-1	1195	685	NW	No	0
UF BATH	EW-4	1195	1766	NW	No	600
UF BATH	EW-1	895	2450	NW	No	600
UF WC	EW-1	1590	2450	NW	No	600
UF HALL	EW-1	1990	2450	NW	No	600

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	149.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	29.0	Bulk Insulation, No Air Gap R2	No

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Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
DINING FAMILY K	Waffle pod slab 300 mm 100mm	49.3	None	Waffle Pod 300mm	20/80 Carpet 10mm/Ceramic
WIP	Waffle pod slab 300 mm 100mm	3.6	None	Waffle Pod 300mm	Ceramic Tiles 8mm
REF	Waffle pod slab 300 mm 100mm	0.6	None	Waffle Pod 300mm	Ceramic Tiles 8mm
LAUNDRY	Waffle pod slab 300 mm 100mm	4.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
POWDER	Waffle pod slab 300 mm 100mm	2.3	None	Waffle Pod 300mm	Ceramic Tiles 8mm
LIVING	Waffle pod slab 300 mm 100mm	9.2	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
ENTRY HALL	Waffle pod slab 300 mm 100mm	9.1	None	Waffle Pod 300mm	Ceramic Tiles 8mm
GARAGE	Waffle pod slab 225 mm 100mm	30.9	None	Waffle Pod 225mm	Bare
ENSUITE/DINING FAMILY K	Timber Above Plasterboard 19mm	6.2		No Insulation	Ceramic Tiles 8mm
BED 1 WIR/DINING FAMILY K	Timber Above Plasterboard 19mm	4.1		No Insulation	Carpet+Rubber Underlay 18mm
BED 1/DINING FAMILY K	Timber Above Plasterboard 19mm	15.0		No Insulation	Carpet+Rubber Underlay 18mm
BED 2/DINING FAMILY K	Timber Above Plasterboard 19mm	4.6		No Insulation	Carpet+Rubber Underlay 18mm
BED 2/REF	Timber Above Plasterboard 19mm	0.7		No Insulation	Carpet+Rubber Underlay 18mm
BED 2/GARAGE	Timber Above Plasterboard 19mm	8.2		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 4/GARAGE	Timber Above Plasterboard 19mm	12.2		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 3/LIVING	Timber Above Plasterboard 19mm	6.6		No Insulation	Carpet+Rubber Underlay 18mm
BED 3/ENTRY HALL	Timber Above Plasterboard 19mm	3.1		No Insulation	Carpet+Rubber Underlay 18mm
BED 3/GARAGE	Timber Above Plasterboard 19mm	1.8		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 3	Suspended Timber Floor 19mm	1.9	Totally Open	No Insulation	Carpet+Rubber Underlay 18mm
UF BATH/POWDER	Timber Above Plasterboard 19mm	2.4		No Insulation	Ceramic Tiles 8mm
UF BATH/LIVING	Timber Above Plasterboard 19mm	0.6		No Insulation	Ceramic Tiles 8mm
UF BATH/ENTRY HALL	Timber Above Plasterboard 19mm	2.1		No Insulation	Ceramic Tiles 8mm
UF WC/LAUNDRY	Timber Above Plasterboard 19mm	2.5		No Insulation	Ceramic Tiles 8mm
UF HALL/DINING FAMILY K	Timber Above Plasterboard 19mm	8.3		No Insulation	Carpet+Rubber Underlay 18mm
UF HALL/LAUNDRY	Timber Above Plasterboard 19mm	1.1		No Insulation	Carpet+Rubber Underlay 18mm
UF HALL/ENTRY HALL	Timber Above Plasterboard 19mm	4.2		No Insulation	Carpet+Rubber Underlay 18mm

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UF HALL/GARAGE	Timber Above Plasterboard 19mm	1.0	Bulk Insulation R2	Carpet+Rubber Underlay 18mm
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Ceiling type

Location	Construction	Added insulation	Roof space above
DINING FAMILY K	Plasterboard	Bulk Insulation R3.5	Yes
DINING FAMILY K	Timber Above Plasterboard	No Insulation	No
WIP	Plasterboard	Bulk Insulation R3.5	Yes
WIP	Timber Above Plasterboard	No Insulation	No
REF	Timber Above Plasterboard	No Insulation	No
LAUNDRY	Timber Above Plasterboard	No Insulation	No
POWDER	Timber Above Plasterboard	No Insulation	No
LIVING	Plasterboard	Bulk Insulation R3.5	Yes
LIVING	Timber Above Plasterboard	No Insulation	No
ENTRY HALL	Timber Above Plasterboard	No Insulation	No
GARAGE	Plasterboard	No insulation	Yes
GARAGE	Timber Above Plasterboard	Bulk Insulation R2	No
ENSUITE	Plasterboard	Bulk Insulation R3.5	Yes
BED 1 WIR	Plasterboard	Bulk Insulation R3.5	Yes
BED 1	Plasterboard	Bulk Insulation R3.5	Yes
BED 2	Plasterboard	Bulk Insulation R3.5	Yes
BED 4	Plasterboard	Bulk Insulation R3.5	Yes
BED 3	Plasterboard	Bulk Insulation R3.5	Yes
UF BATH	Plasterboard	Bulk Insulation R3.5	Yes
UF WC	Plasterboard	Bulk Insulation R3.5	Yes
UF HALL	Plasterboard	Bulk Insulation R3.5	Yes

Ceiling penetrations

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

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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

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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