

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0004476503**

Certificate Date: **18 Dec 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 v4.3.0.2f (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Street: **Warriewood Road**
Suburb: **Warriewood**
State: **NSW** Postcode: **2102**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **8/1206507** 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**
R3.0 ceiling insulation
No floor insulation
Glazing: **TND-001-01 A Trend Al Sliding Window**
SG 3Clr

Net floor area (m²)

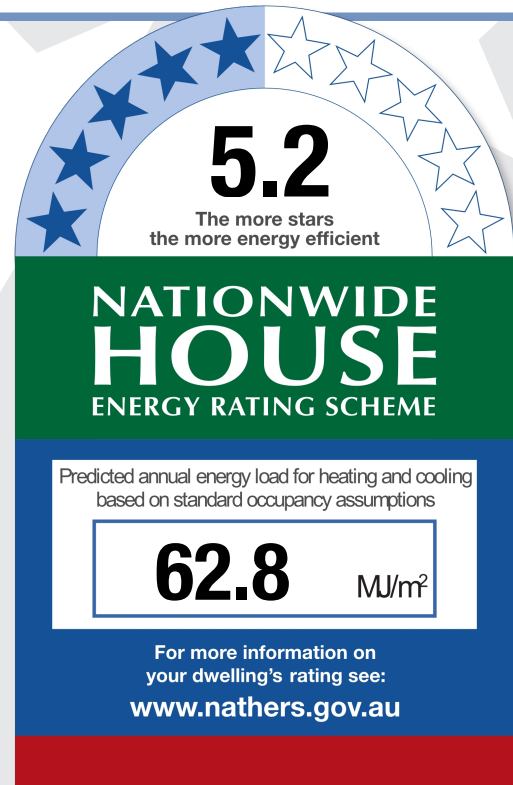
Conditioned: **193.0**
Unconditioned: **57.0**
Garage: **31.0**
TOTAL: **250.0**

Annual thermal performance loads (MJ/m²)

Heating: **38.1**
Cooling: **24.7**
TOTAL: **62.8**

Plan documents

Plan ref/date: **Alegre 190036**
Prepared by: **AES**



Ceiling penetrations

(see following pages for details)

Sealed: **5**
Unsealed: **0**
TOTAL:** **5**

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

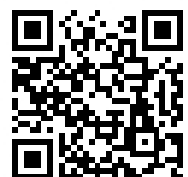
Note on allowable window values:
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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.



Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004476503**

Certificate Date:

18 Dec 2019

★ Star rating:

5.2



Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
TND-071-01 A	TND-071-01 A Windsor Sliding Door SG 6Clr	6.1	0.65
TND-002-01 A	TND-002-01 A Trend Al Awning Window SG 3Clr	6.5	0.66
TND-001-01 A	TND-001-01 A Trend Al Sliding Window SG 3Clr	6.4	0.73
TND-024-01 A	TND-024-01 A Trend Al Internal offset glazed window SG 5Clr	6.1	0.75

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Home Theatre	TND-071-01 A	n/a	2300	2700	N	No Shading
Home Office	TND-002-01 A	n/a	1800	1800	E	No Shading
PWD	TND-001-01 A	n/a	600	1200	N	No Shading
Laundry	TND-071-01 A	n/a	2300	1500	S	No Shading
Kitchen/Leisure	TND-001-01 A	n/a	1200	2400	W	No Shading
Kitchen/Leisure	TND-071-01 A	n/a	2300	3500	W	No Shading
Kitchen/Leisure	TND-001-01 A	n/a	1000	2400	W	No Shading
Kitchen/Leisure	TND-001-01 A	n/a	1200	3000	N	No Shading
Bedroom 1	TND-071-01 A	n/a	2100	1800	E	No Shading
Bedroom 1	TND-001-01 A	n/a	600	2400	N	No Shading
Ensuite 1	TND-002-01 A	n/a	1800	500	N	No Shading
Bedroom 2	TND-001-01 A	n/a	600	1200	S	No Shading
Bedroom 2	TND-002-01 A	n/a	1200	900	E	No Shading
Bedroom 2	TND-002-01 A	n/a	1200	900	E	No Shading
Bath 1	TND-002-01 A	n/a	1000	600	S	No Shading
WC	TND-002-01 A	n/a	400	600	S	No Shading
Bedroom 3	TND-001-01 A	n/a	900	2400	W	No Shading
Bedroom 4	TND-001-01 A	n/a	900	2400	W	No Shading
Bath 2	TND-002-01 A	n/a	300	1200	W	No Shading
Bedroom 5	TND-001-01 A	n/a	900	2400	W	No Shading
Studio	TND-002-01 A	n/a	1200	900	E	No Shading
Gallery	TND-024-01 A	n/a	1200	1200	E	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

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004476503**

Certificate Date:

18 Dec 2019

★ Star rating:

5.2



Building features continued

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)
Home Theatre	EW-1	3700	2740	N	No	100
Home Theatre	EW-1	600	2740	E	No	100
Home Theatre	EW-1	600	2740	W	No	100
Home Office	EW-1	2595	2740	N	No	100
Home Office	EW-1	4300	2740	E	No	1500
Home Office	EW-1	1200	2740	S	No	7900
PWD	EW-1	1690	2740	N	No	100
Garage	EW-2	5800	2825	S	No	100
Garage	EW-2	1300	2825	W	No	100
Garage	EW-2	600	2825	N	No	6700
Garage	EW-3	5500	2825	E	No	100
Laundry	EW-1	1990	2740	S	No	100
Entry/Foyer	EW-1	2290	2740	E	No	2700
Kitchen/Leisure	EW-1	4695	2740	S	No	100
Kitchen/Leisure	EW-1	10800	2740	W	No	600
Kitchen/Leisure	EW-1	5095	2740	N	No	100
Bedroom 1	EW-1	4300	2440	E	No	1900
Bedroom 1	EW-1	1200	2440	S	No	8400
Bedroom 1	EW-1	3095	2440	N	No	600
Bedroom 1	EW-1	600	2440	E	No	4500
Bedroom 1	EW-1	2600	2440	N	No	600
Ensuite 1	EW-1	1295	2440	N	No	600
Ensuite 1	EW-1	600	2440	W	No	5600
Ensuite 1	EW-1	595	2440	N	No	600
Bedroom 2	EW-1	3595	815	S	No	0
Bedroom 2	EW-4	3595	1625	S	No	600
Bedroom 2	EW-1	2995	815	E	No	0
Bedroom 2	EW-4	2995	1625	E	No	600
WIR 2	EW-1	1295	815	S	No	0
WIR 2	EW-4	1295	1625	S	No	600
WIR 2	EW-4	1295	2440	W	No	600
Bath 1	EW-4	1095	2440	S	No	1900
WC	EW-1	990	2440	S	No	600
Bedroom 3	EW-1	3695	2440	S	No	600
Bedroom 3	EW-4	2895	2440	W	No	600
Bedroom 4	EW-4	2895	2440	W	No	600
Bedroom 4	EW-1	3695	2440	N	No	600
Bath 2	EW-4	1490	2440	W	No	600
Bedroom 5	EW-4	3490	2440	W	No	600
Studio	EW-4	600	2440	N	No	7200
Studio	EW-1	2495	815	E	No	0
Studio	EW-4	2495	1625	E	No	600
Gallery	EW-1	2290	2440	E	No	3100

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004476503**

Certificate Date:

18 Dec 2019

★ Star rating:

5.2



Building features continued

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	234.0	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
Home Theatre	Waffle pod slab 300 mm 100mm	14.7	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Home Office	Waffle pod slab 300 mm 100mm	10.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
PWD	Waffle pod slab 300 mm 100mm	5.6	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Garage	Waffle pod slab 225 mm 100mm	31.5	None	Waffle Pod 225mm	Bare
Laundry	Waffle pod slab 300 mm 100mm	5.8	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Entry/Foyer	Waffle pod slab 300 mm 100mm	18.2	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Kitchen/Leisure	Waffle pod slab 300 mm 100mm	56.8	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Bedroom 1/Home Theatre	Timber Above Plasterboard 100mm	7.7		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1/Home Office	Timber Above Plasterboard 100mm	10.1		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1/Entry/Foyer	Timber Above Plasterboard 100mm	1.7		No Insulation	Carpet+Rubber Underlay 18mm
WIR 1/Home Theatre	Timber Above Plasterboard 19mm	3.5		No Insulation	Carpet+Rubber Underlay 18mm
Ensuite 1/Home Theatre	Timber Above Plasterboard 19mm	2.0		No Insulation	Ceramic Tiles 8mm
Ensuite 1/PWD	Timber Above Plasterboard 19mm	3.1		No Insulation	Ceramic Tiles 8mm
Bedroom 2/Garage	Timber Above Plasterboard 19mm	10.5		No Insulation	Carpet+Rubber Underlay 18mm
WIR 2/Garage	Timber Above Plasterboard 19mm	1.6		No Insulation	Carpet+Rubber Underlay 18mm
Bath 1/Garage	Timber Above Plasterboard 19mm	5.1		No Insulation	Ceramic Tiles 8mm
WC/Garage	Timber Above Plasterboard 19mm	1.0		No Insulation	Ceramic Tiles 8mm
WC/Laundry	Timber Above Plasterboard 19mm	2.8		No Insulation	Ceramic Tiles 8mm
Bedroom 3/Laundry	Timber Above Plasterboard 19mm	1.6		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 3/Kitchen/Leisure	Timber Above Plasterboard 19mm	8.2		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 4/PWD	Timber Above Plasterboard 19mm	0.7		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 4/Kitchen/Leisure	Timber Above Plasterboard 19mm	9.1		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

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004476503**

Certificate Date:

18 Dec 2019

★ Star rating:

5.2



Building features continued

Bath 2/Kitchen/Leisure	Timber Above Plasterboard 19mm	5.0	No Insulation	Ceramic Tiles 8mm
Bedroom 5/Kitchen/Leisure	Timber Above Plasterboard 19mm	9.6	No Insulation	Carpet+Rubber Underlay 18mm
Studio/Garage	Timber Above Plasterboard 19mm	6.2	No Insulation	Carpet+Rubber Underlay 18mm
Upper Hallway/Garage	Timber Above Plasterboard 19mm	4.7	No Insulation	Carpet+Rubber Underlay 18mm
Upper Hallway/Laundry	Timber Above Plasterboard 19mm	1.1	No Insulation	Carpet+Rubber Underlay 18mm
Upper Hallway/Kitchen/Leisure	Timber Above Plasterboard 19mm	1.8	No Insulation	Carpet+Rubber Underlay 18mm
Gallery/Home Theatre	Timber Above Plasterboard 19mm	1.2	No Insulation	Carpet+Rubber Underlay 18mm
Gallery/PWD	Timber Above Plasterboard 19mm	1.8	No Insulation	Carpet+Rubber Underlay 18mm
Gallery/Entry/Foyer	Timber Above Plasterboard 19mm	16.5	No Insulation	Carpet+Rubber Underlay 18mm
Gallery/Kitchen/Leisure	Timber Above Plasterboard 19mm	2.7	No Insulation	Carpet+Rubber Underlay 18mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Home Theatre	Timber Above Plasterboard	No Insulation	No
Home Office	Timber Above Plasterboard	No Insulation	No
PWD	Timber Above Plasterboard	No Insulation	No
Garage	Plasterboard	No insulation	Yes
Garage	Timber Above Plasterboard	No Insulation	No
Laundry	Timber Above Plasterboard	No Insulation	No
Entry/Foyer	Timber Above Plasterboard	No Insulation	No
Kitchen/Leisure	Plasterboard	Bulk Insulation R3	Yes
Kitchen/Leisure	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R3	Yes
WIR 1	Plasterboard	Bulk Insulation R3	Yes
Ensuite 1	Plasterboard	Bulk Insulation R3	Yes
Bedroom 2	Plasterboard	Bulk Insulation R3	Yes
WIR 2	Plasterboard	Bulk Insulation R3	Yes
Bath 1	Plasterboard	Bulk Insulation R3	Yes
WC	Plasterboard	Bulk Insulation R3	Yes
Bedroom 3	Plasterboard	Bulk Insulation R3	Yes
Bedroom 4	Plasterboard		Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0004476503**

Certificate Date:

18 Dec 2019

★ Star rating:

5.2

Building features continued

		Bulk Insulation R3	
Bath 2	Plasterboard	Bulk Insulation R3	Yes
Bedroom 5	Plasterboard	Bulk Insulation R3	Yes
Studio	Plasterboard	Bulk Insulation R3	Yes
Upper Hallway	Plasterboard	Bulk Insulation R3	Yes
Gallery	Plasterboard	Bulk Insulation R3	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
PWD	1	Exhaust Fans	300	Sealed
Ensuite 1	1	Exhaust Fans	300	Sealed
Bath 1	1	Exhaust Fans	300	Sealed
WC	1	Exhaust Fans	300	Sealed
Bath 2	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
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.3	Dark

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004476503

Certificate Date: 18 Dec 2019

★ Star rating: 5.2



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