

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0002390821-01**

Certificate Date: **08 Feb 2018**

★ Star rating: **7.9**

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 v4.3.0.2b (3.13)**

AAO: **BDAV**

Overview

Dwelling details

Street: **Unit 4.1, 79 Cabbage Tree Road**
Suburb: **Bayview**
State: **NSW** Postcode: **2104**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **20/632081** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**
Plasterboard
Waffle pod slab 175 mm
Insulation: **R2.0 wall insulation**
No ceiling insulation
No floor insulation
Glazing: **BRD-033-01 A ESS Sliding Door**
(80mm) SG 4Clr

Net floor area (m²)

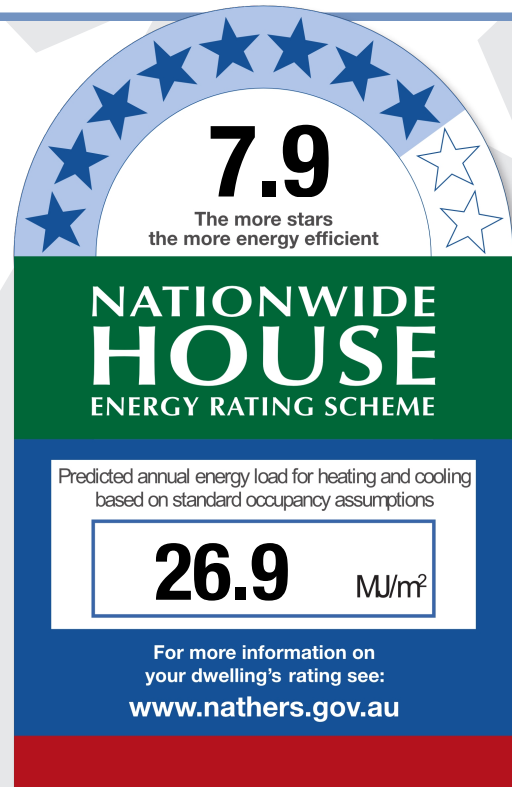
Conditioned: **98.0**
Unconditioned: **29.0**
Garage: **22.0**
TOTAL: **127.0**

Annual thermal performance loads (MJ/m²)

Heating: **14.9**
Cooling: **12.0**
TOTAL: **26.9**

Plan documents

Plan ref/date: **Lot 20, 79 Cabbage Tree Road**
Prepared by: **IW**



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 downlight type: **Unknown**

Window selection - default windows only

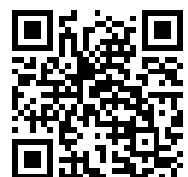
Note on allowable window values:
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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
BRD-041-01 A	BRD-041-01 A SIG Fixed Lite Externally Glazed (125mm) SG 4Clr	6.2	0.74
BRD-001-01 A	BRD-001-01 A ESS Sliding Window (52mm) SG 3Clr	6.4	0.76
BRD-033-01 A	BRD-033-01 A ESS Sliding Door (80mm) SG 4Clr	6.2	0.74
BRD-063-01 A	BRD-063-01 A SIG Fixed Lite (67mm) SG 4Clr	6.0	0.78

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Ensuite 1	BRD-041-01 A	n/a	900	900	S	No Shading
Bedroom 1	BRD-001-01 A	n/a	2400	1800	S	No Shading
Kitchen/Living	BRD-033-01 A	n/a	2400	3000	E	No Shading
Kitchen/Living	BRD-033-01 A	n/a	2400	2000	S	No Shading
Kitchen/Living	BRD-063-01 A	n/a	2400	510	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 (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	No insulation	No
EW-2	Cavity Brick	No insulation	No
EW-3	Brick Veneer	Bulk Insulation R2	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Garage 1	EW-1	2000	2830	E	No	100
Garage 1	EW-2	3700	2830	S	No	100
Ensuite 1	EW-3	2490	2830	S	No	100
Bedroom 1	EW-3	1800	2830	E	No	6400
Bedroom 1	EW-3	900	2830	S	No	100
Bedroom 1	EW-3	2000	2831	S	No	1300
Bedroom 1	EW-3	1095	2830	S	No	100
Bath	EW-3	1895	2830	N	No	100
Bedroom 2	EW-3	4090	2830	N	No	100
Kitchen/Living	EW-3	8295	2830	N	No	100
Kitchen/Living	EW-3	6100	2830	E	No	100
Kitchen/Living	EW-3	200	2831	E	No	2300
Kitchen/Living	EW-3	2300	2830	S	No	5200

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Kitchen/Living	EW-3	1200	2830	E	No	4600
Kitchen/Living	EW-3	1500	2830	S	No	4000
Kitchen/Living	EW-3	295	2831	S	No	1900

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	22.0	Bulk Insulation, No Air Gap R2	No
IW-2 - Cavity brick, plasterboard	32.0	No Insulation	No
IW-3 - Cavity wall, direct fix plasterboard, single gap	85.0	No insulation	No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Garage 1	Waffle pod slab 175 mm 100mm	22.2	None	Waffle Pod 175mm	Bare
Ensuite 1	Waffle pod slab 175 mm 100mm	7.4	None	Waffle Pod 175mm	Ceramic Tiles 8mm
Bedroom 1	Waffle pod slab 175 mm 100mm	15.9	None	Waffle Pod 175mm	Carpet 10mm
Bath	Waffle pod slab 175 mm 100mm	6.6	None	Waffle Pod 175mm	Ceramic Tiles 8mm
Bedroom 2	Waffle pod slab 175 mm 100mm	15.0	None	Waffle Pod 175mm	Carpet 10mm
Kitchen/Living	Waffle pod slab 175 mm 100mm	11.9	None	Waffle Pod 175mm	Ceramic Tiles 8mm
Kitchen/Living	Waffle pod slab 175 mm 100mm	47.9	None	Waffle Pod 175mm	Ceramic Tiles 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Garage 1	Plasterboard	No insulation	No
Ensuite 1	Plasterboard	No insulation	No
Bedroom 1	Plasterboard	No insulation	No
Bath	Plasterboard	No insulation	No
Bedroom 2	Plasterboard	No insulation	No
Kitchen/Living	Plasterboard	No insulation	No
Kitchen/Living	Plasterboard	No insulation	No

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
None Present				

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Building features continued

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
None Present		

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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