

Nationwide House Energy Rating Scheme* Certificate



Certificate number: 0003745734

Certificate Date: 03 Apr 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/BDV/12/1473

Name: Tracey Cools

Organisation: Efficient Living Pty Ltd

Email: admin@efficientliving.com.au

Phone: (02) 9970 6181

Declaration
of interest: None

Software: BERS Pro v4.3.0.2d (3.13)

AAO: BDAV

Overview

Dwelling details

Street: 45 Brinawa Street

Suburb: Mona Vale

State: NSW

Postcode: 2103

Type: New Dwelling

NCC Class: 1A

Lot/DP

number: 104/1098407

NatHERS
climate zone: 56

Exposure: Suburban

Key construction and insulation materials

(see following pages for details)

Construction: Fibro Cavity Panel Direct Fix
Roof Tiles

Insulation: Suspended Concrete Slab

R2.0 wall insulation

R3.0 ceiling insulation

No floor insulation

Glazing: ALM-001-01 A Aluminium A SG Clear

Net floor area (m²)

Conditioned: 50.0

Unconditioned: 7.0

Garage: 0.0

TOTAL: 58.0

Annual thermal performance loads (MJ/m²)

Heating: 44.3

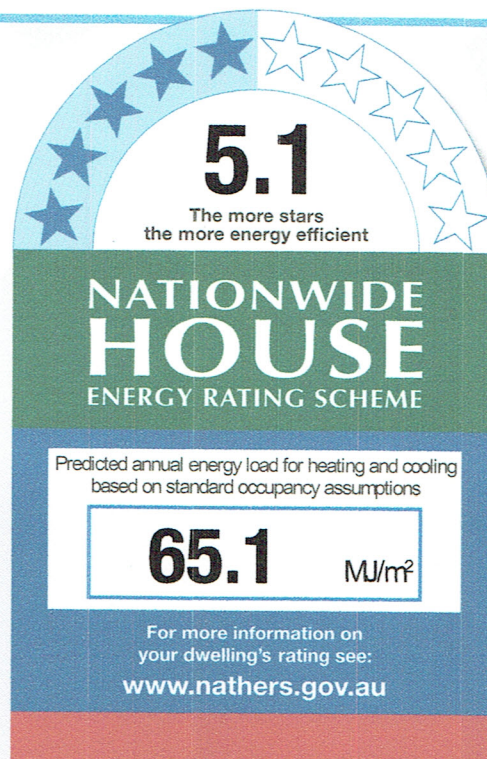
Cooling: 20.8

TOTAL: 65.1

Plan documents

Plan ref/date: 19-0114

Prepared by: J.D. Evans and Company



Ceiling penetrations

(see following pages for details)

Sealed: 19

Unsealed: 0

TOTAL:** 19

**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: LED

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
ALM-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	ALM-001-01 A	n/a	2100	1500	W	No Shading
Kitchen/Living	ALM-002-01 A	n/a	900	1500	W	No Shading
Kitchen/Living	ALM-001-01 A	n/a	2100	3300	N	No Shading
Bathroom	ALM-001-01 A	n/a	900	1000	E	No Shading
Bedroom 1	ALM-002-01 A	n/a	1200	2400	W	No Shading
Bedroom 2	ALM-002-01 A	n/a	1200	1800	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 (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Fibro Cavity Panel Direct Fix	Anti-glare foil with bulk no gap R2	Yes

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/Living	EW-1	4695	2750	W	No	1800
Kitchen/Living	EW-1	5400	2750	N	No	2600
Bathroom	EW-1	1300	2750	E	No	700
Bathroom	EW-1	1795	2750	S	No	700
Bedroom 1	EW-1	3595	2750	S	No	700
Bedroom 1	EW-1	3195	2750	W	No	700
Bedroom 2	EW-1	1100	2750	S	No	3900
Bedroom 2	EW-1	2500	2750	W	No	700
Bedroom 2	EW-1	1100	2750	N	No	5400

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	40.0	No insulation	No
IW-2 - Shaft liner party wall with	25.0	No insulation one side, Bulk Insulation the	No

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Building features continued

plaster

other R1.2

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	Suspended Concrete Slab 150mm	30.9	Enclosed	No Insulation	Ceramic Tiles 8mm
Bathroom	Concrete Slab, Unit Below 150mm	7.3	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 150mm	11.2	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2	Concrete Slab, Unit Below 150mm	5.2	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2	Suspended Concrete Slab 150mm	3.0	Totally Open	No Insulation	Ceramic Tiles 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/Living	Plasterboard	Bulk Insulation R3	Yes
Bathroom	Plasterboard	Bulk Insulation R3	Yes
Bedroom 1	Plasterboard	Bulk Insulation R3	Yes
Bedroom 2	Plasterboard	Bulk Insulation R3	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	10	Downlights - LED	150	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Bathroom	3	Downlights - LED	150	Sealed
Bathroom	1	Exhaust Fans	300	Sealed
Bedroom 1	2	Downlights - LED	150	Sealed
Bedroom 2	2	Downlights - LED	150	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added	Roof colour
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Building features continued

	insulation	
Roof Tiles	No Insulation, Only an Air Gap	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