

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: EL9026Z6NX

Date of Certificate: 11 Oct 2018

★ Star rating: 5.2

Assessor details

Accreditation number: **VIC/BDAV/11/0538**
Name: **Mark Schlegel**
Organisation: **Agincourt Energy Raters**
Email: **mark@energyraters.net**
Phone: **03 9010 6031**
Declaration of interest: **Employed by designer of the building**
Software: **FirstRate5: 5.2.9 (3.13)**
AAO: **BDAV**

GRIMBOS BUILDING SURVEYORS

(03) 9419 7000

**THIS DOCUMENT IS THE SUBJECT OF
BUILDING PERMIT NUMBER**

1585/20180208/OA

ISSUED ON 16 October 2018

Overview

Dwelling details

Address: **129 Easey Street**
Suburb: **Collingwood**
State: **VIC** Postcode: **3066**
Type: **Alteration** NCC Class: **Class 1a**
Lot/DP number: **-** NatHERS climate zone: **21**
Exposure: **suburban**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **Weatherboard**
Roof: **Sheet**
Floor: **Slab/Timber**
Insulation: Wall: **165mm SIPS Panels**
Roof: **215mm SIPS Panels**
Floor: **N/A**
Glazing: **Aluminium/Timber**
Double/Single

Net floor area (m²)

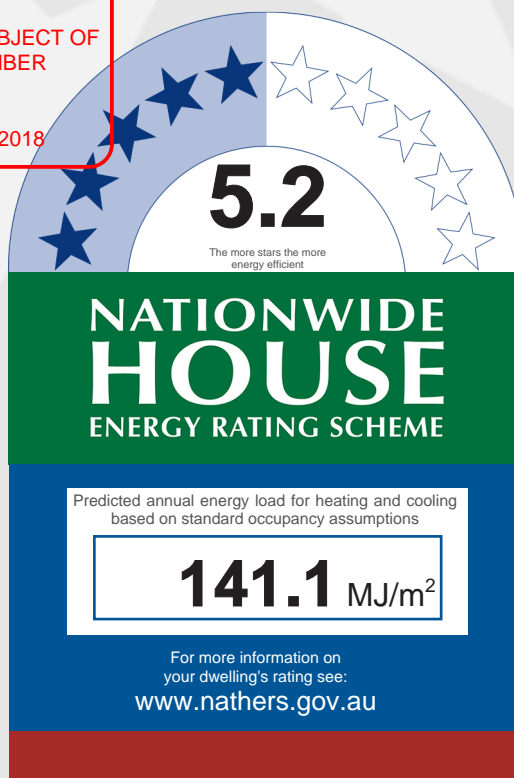
Conditioned: **137.8**
Unconditioned: **9.8**
Garage: **-**
TOTAL: **147.6**

Annual thermal performance loads (MJ/m²)

Heating: **129.6**
Cooling: **11.5**
TOTAL: **141.1**

Plan documents

Plan ref/date: **1608**
Prepared by: **-**



Ceiling penetrations

(see following pages for details)

Sealed: **17**
Unsealed: **0**
TOTAL:** **17**

Principal downlight type:

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.

Modelled but type not specified

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If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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.



<https://www.fr5.com.au/QRCodeLanding?PublicId=EL9026Z6NX>

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Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
ATB-005-03 B	AI Thermally Broken A DG Argon Fill High Solar Gain low-E -Clear	2.91	0.44
ATB-006-03 B	AI Thermally Broken B DG Argon Fill High Solar Gain low-E -Clear	2.9	0.51
TIM-004-01 W	Timber B DG Air Fill Clear-Clear	3	0.56
TIM-001-01 W	Timber A SG Clear	5.4	0.56
TIM-002-01 W	Timber B SG Clear	5.4	0.63

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Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ATB-005-03 B	Opening 28	2260	400	W	Kitchen/Living	No
ATB-006-03 B	Opening 12	1900	2100	S	Kitchen/Living	No
ATB-006-03 B	Opening 23	2450	3600	S	Kitchen/Living	No
ATB-005-03 B	Opening 26	855	2760	W	Kitchen/Living	No
ATB-005-03 B	Opening 27	855	4210	W	Kitchen/Living	No
ATB-006-03 B	Opening 14	800	2000	W	Study	No
ATB-005-03 B	Opening 15	500	900	W	Ens 2	No
TIM-004-01 W	Opening 16	1450	1125	W	Bedroom 3	No
TIM-004-01 W	Opening 17	1386	900	W	Bedroom 2	No
TIM-001-01 W	Opening 19	2250	1369	N	Bedroom 1	No
TIM-002-01 W	Opening 21	2300	250	N	Corridor	No
TIM-002-01 W	Opening 22	200	1100	N	Corridor	No
TIM-001-01 W	Opening 18	2450	1385	N	Guest	No

Roof windows and skylight type and performance value

ID	Window type	U-value	SHGC
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Roof window and skylight schedule

ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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External wall type

Type	Insulation	Wall wrap
1 : NEW - EvissaSIPS165mm	Polystyrene expanded (k = 0.039) (R4.9)	No
2 : MAIN - Archclad 2.5	Rockwool batt: R2.5 (R2.5)	No

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3 : NEW - DBKooltherm50	Polyurethane rigid foamed aged: R2.0 (R2.0)	No
4 : Main - EPS-75-2.5	Polystyrene expanded (k = 0.039) (R1.9);Rockwool batt: R2.5 (R2.5)	No
5 : Main - Weatherboard1	Glass fibre batt: R1.5 (R1.5)	No
6 : Main - Double Brick		No

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Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : NEW - EvisaSIPS165mm	13.4	W	Kitchen/Living	No	No
1 : NEW - EvisaSIPS165mm	0.9	S	Kitchen/Living	Yes	No
2 : MAIN - Archclad 2.5	2.1	W	Kitchen/Living	No	No
2 : MAIN - Archclad 2.5	7.1	S	Kitchen/Living	Yes	No
2 : MAIN - Archclad 2.5	2.2	E	Kitchen/Living	Yes	No
1 : NEW - EvisaSIPS165mm	3	S	Kitchen/Living	Yes	No
1 : NEW - EvisaSIPS165mm	14.6	S	Kitchen/Living	Yes	No
3 : NEW - DBKooltherm50	2	S	Kitchen/Living	Yes	No
3 : NEW - DBKooltherm50	17.1	E	Kitchen/Living	No	No
4 : Main - EPS-75-2.5	9.6	W	Kitchen/Living	No	No
4 : Main - EPS-75-2.5	0.4	N	Kitchen/Living	No	No
1 : NEW - EvisaSIPS165mm	4.7	W	Study	No	No
5 : Main - Weatherboard1	3.3	W	Ens 2	No	No
6 : Main - Double Brick	4.6	E	Ptry	No	No
6 : Main - Double Brick	4.3	E	Bathroom	No	No
5 : Main - Weatherboard1	12.1	W	Bedroom 3	No	Yes
5 : Main - Weatherboard1	1.2	S	Bedroom 3	No	No
5 : Main - Weatherboard1	13	W	Bedroom 2	No	Yes
5 : Main - Weatherboard1	5.4	E	Bedroom 1	Yes	Yes
5 : Main - Weatherboard1	12.4	N	Bedroom 1	Yes	Yes
5 : Main - Weatherboard1	12.2	W	Bedroom 1	Yes	Yes
5 : Main - Weatherboard1	3.9	N	Corridor	Yes	Yes
6 : Main - Double Brick	21.1	E	Guest	No	No
5 : Main - Weatherboard1	13	N	Guest	Yes	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : Main - Roof Space 2.5	25.4	Rockwool batt: R2.5 (R2.5)

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2 : FR5 - Internal Plasterboard Stud Wall 157.3

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	CSOG: Slab on Ground	53.8	Enclosed Disconnected	0.0	floatimber
Kitchen/Living	CSOG: Slab on Ground	1.5	Enclosed Disconnected	0.0	floatimber
Kitchen/Living	CSOG: Slab on Ground	1.1	Enclosed Disconnected	0.0	floatimber
Study	CSOG: Slab on Ground	6.9	Enclosed Disconnected	0.0	floatimber
Ens 2	CSOG: Slab on Ground	3.7	Enclosed Disconnected	0.0	Tiles
Ptry	Timber	3.2	Enclosed Disconnected	0.0	floatimber
Storage	Timber	1.9	Enclosed Disconnected	0.0	floatimber
Bathroom	CSOG: Slab on Ground	9.8	Enclosed Disconnected	0.0	Tiles
Bedroom 3	Timber	12	Enclosed Disconnected	0.0	Carpet
Bedroom 2	Timber	12.8	Enclosed Disconnected	0.0	Carpet
Bedroom 1	Timber	11.9	Enclosed Disconnected	0.0	Carpet
Corridor	Timber	10.6	Enclosed Disconnected	0.0	floatimber
Guest	Timber	18.4	Enclosed Disconnected	0.0	floatimber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	Plasterboard	5.0	No
Kitchen/Living	Plasterboard	5.0	No
Kitchen/Living	Plasterboard	5.0	No
Study	Plasterboard	5.0	No
Ens 2	Plasterboard	5.0	No

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Ptry	Plasterboard	5.0	No
Storage	Plasterboard	5.0	No
Bathroom	Plasterboard	5.0	No
Bedroom 3	Plasterboard	3.0	Yes
Bedroom 2	Plasterboard	3.0	Yes
Bedroom 1	Plasterboard	3.0	Yes
Corridor	Plasterboard	3.0	Yes
Guest	Plasterboard	3.0	Yes

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Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
Kitchen/Living	6	Downlights	50	50	Sealed
Kitchen/Living	1	Exhaust Fans	100	100	Sealed
Study	2	Downlights	50	50	Sealed
Ens 2	2	Downlights	50	50	Sealed
Ens 2	1	Exhaust Fans	300	300	Sealed
Ptry	1	Downlights	50	50	Sealed
Storage	1	Downlights	50	50	Sealed
Bathroom	2	Downlights	50	50	Sealed
Bathroom	1	Exhaust Fans	300	300	Sealed

Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Framed:Flat - Flat Framed (Metal Deck)	0.0	light
Cont:Attic-Continuous	0.0	light

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Additional information

Windows used in the Report are indicative only.

Any window with comparable U_w and SHGC values can be substituted.

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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 this 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 an 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