

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 63L2WF0FU1

Date of Certificate: 6 Mar 2019

★ Star rating: 6



Assessor details

Accreditation number: VIC/BDAV/13/1648
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Declaration of interest: No potential conflicts of interest to declare
Software: FirstRate5: 5.2.9 (3.13)
AAO: BDAV

Overview

Dwelling details

Address: Lot 322 Sapphire Drive, Connemara
Suburb: -
State: VIC Postcode: 3227
Type: New Home NCC Class: Class 1a
Lot/DP number: - NatHERS climate zone: 64
Exposure: suburban

Key construction and insulation materials

(see following pages for details)

Construction: Wall:
Roof:
Floor:
Insulation: Wall:
Roof:
Floor:
Glazing:

Net floor area (m²)

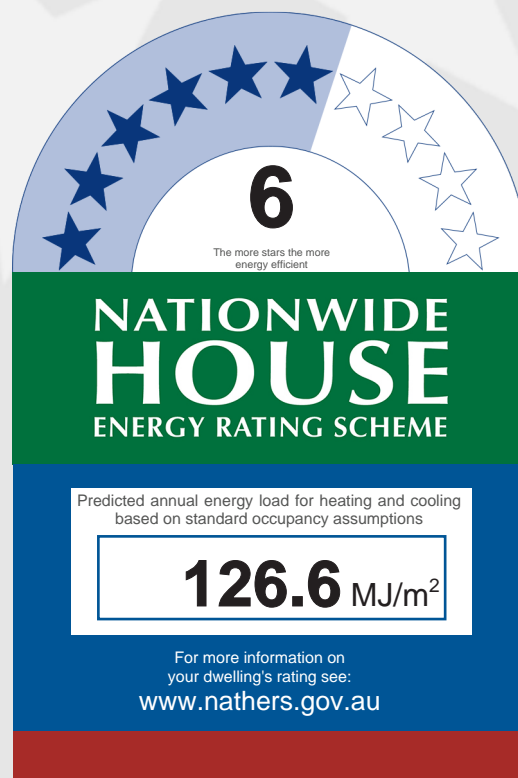
Conditioned: 198
Unconditioned: 18.8
Garage: 78.7
TOTAL: 295.5

Annual thermal performance loads (MJ/m²)

Heating: 114.3
Cooling: 12.3
TOTAL: 126.6

Plan documents

Plan ref/date: -
Prepared by: -



Ceiling penetrations

(see following pages for details)

Sealed: 64
Unsealed: 1
TOTAL:** 65

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If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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=63L2WF0FU1>

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Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
DOW-005-01 A	Manor Awning Window DG 3/12/3	3.9	0.58
DOW-015-01 A	Aluminium Fixed Light Window DG 4/12/4	3.59	0.66
DOW-007-01 A	Sliding Door DG 5-6-5	4.23	0.59
DOW-018-01 A	Aluminium Sliding Window DG 4/8/4	4.2	0.62

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
DOW-005-01 A	Opening 1468	2050	850	WNW	Bedroom 3	No
DOW-005-01 A	Opening 1469	2050	850	WNW	Living	No
DOW-015-01 A	Opening 1456	2350	1710	SSW	Living	No
DOW-007-01 A	Opening 1457	2360	1810	SSW	Bedroom 2	No
DOW-005-01 A	Opening 1458	1500	1450	ESE	Bath	No
DOW-005-01 A	Opening 1459	1200	610	ESE	Pdr	No
DOW-018-01 A	Opening 1470	600	2410	ESE	Office	No
DOW-005-01 A	Opening 1460	2050	3610	ESE	Kitchen/Living	No
DOW-007-01 A	Opening 1464	2360	2410	NNE	Kitchen/Living	No
DOW-005-01 A	Opening 1461	2340	4810	ESE	Kitchen/Living	No
DOW-007-01 A	Opening 1463	2360	4210	NNE	Kitchen/Living	No
DOW-005-01 A	Opening 1467	1200	610	WNW	wc	No
DOW-005-01 A	Opening 1466	400	1970	WNW	ens	No
DOW-005-01 A	Opening 1462	2200	3610	NNE	Bedroom 1	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 : FR5 - Metal Clad Framed	Glass fibre batt: R2.5 (R2.5)	Yes
2 : FR5 - Brick Veneer	Glass fibre batt: R2.5 (R2.5)	Yes

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3 : FR5 - Weatherboard	Glass fibre batt: R2.5 (R2.5)	Yes
4 : FR5 - Brick Cavity	Glass fibre batt: R2.5 (R2.5)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Metal Clad Framed	9.8	NNE	Garage	Yes	Yes
1 : FR5 - Metal Clad Framed	28.3	WNW	Garage	No	Yes
1 : FR5 - Metal Clad Framed	9.6	SSW	Garage	Yes	Yes
2 : FR5 - Brick Veneer	3	ESE	Garage	Yes	No
3 : FR5 - Weatherboard	14.1	SSW	Garage	Yes	No
2 : FR5 - Brick Veneer	4.1	SSW	Ent	Yes	Yes
2 : FR5 - Brick Veneer	9.6	WNW	Bedroom 3	Yes	Yes
2 : FR5 - Brick Veneer	12.1	WNW	Living	Yes	Yes
2 : FR5 - Brick Veneer	11	SSW	Living	No	Yes
2 : FR5 - Brick Veneer	2.7	ESE	Living	Yes	No
2 : FR5 - Brick Veneer	7.6	SSW	Bedroom 2	Yes	Yes
1 : FR5 - Metal Clad Framed	11.7	ESE	Bedroom 2	No	Yes
2 : FR5 - Brick Veneer	1.3	SSW	Bath	Yes	No
1 : FR5 - Metal Clad Framed	5.1	ESE	Bath	No	No
1 : FR5 - Metal Clad Framed	4.2	ESE	Pdr	No	No
2 : FR5 - Brick Veneer	1.6	NNE	Pdr	Yes	No
1 : FR5 - Metal Clad Framed	9.6	ESE	Office	Yes	Yes
1 : FR5 - Metal Clad Framed	13.9	ESE	Kitchen/Living	Yes	Yes
3 : FR5 - Weatherboard	9.7	NNE	Kitchen/Living	Yes	Yes
3 : FR5 - Weatherboard	16.6	ESE	Kitchen/Living	Yes	Yes
3 : FR5 - Weatherboard	13	NNE	Kitchen/Living	Yes	Yes
2 : FR5 - Brick Veneer	5	WNW	L'dry	Yes	No
2 : FR5 - Brick Veneer	2.6	WNW	wc	Yes	No
2 : FR5 - Brick Veneer	9.4	WNW	ens	Yes	No
4 : FR5 - Brick Cavity	11.3	ESE	Bedroom 1	Yes	No
2 : FR5 - Brick Veneer	14.8	NNE	Bedroom 1	No	Yes
2 : FR5 - Brick Veneer	11.4	WNW	Bedroom 1	Yes	No

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	40.1	Glass fibre batt: R2.5 (R2.5)

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2 : FR5 - Internal Plasterboard Stud Wall 205.9

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Garage	CSOG: Slab on Ground	78.7	Enclosed	0.0	none
Ent	CSOG: Slab on Ground	7.7	Enclosed	0.0	Tiles
Bedroom 3	CSOG: Slab on Ground	11.2	Enclosed	0.0	Carpet
Living	CSOG: Slab on Ground	23.3	Enclosed	0.0	Carpet
Bedroom 2	CSOG: Slab on Ground	11.8	Enclosed	0.0	Carpet
Bath	CSOG: Slab on Ground	5.9	Enclosed	0.0	Tiles
Pdr	CSOG: Slab on Ground	2.1	Enclosed	0.0	Tiles
Office	CSOG: Slab on Ground	9.7	Enclosed	0.0	Carpet
Kitchen/Living	CSOG: Slab on Ground	80.5	Enclosed	0.0	Tiles
wip	CSOG: Slab on Ground	7.2	Enclosed	0.0	Tiles
pass	CSOG: Slab on Ground	3.2	Enclosed	0.0	Tiles
wil	CSOG: Slab on Ground	4.1	Enclosed	0.0	Tiles
L'dry	CSOG: Slab on Ground	8.9	Enclosed	0.0	Tiles
wir	CSOG: Slab on Ground	10.3	Enclosed	0.0	Carpet
wc	CSOG: Slab on Ground	1.8	Enclosed	0.0	Tiles
ens	CSOG: Slab on Ground	6.7	Enclosed	0.0	Tiles
Bedroom 1	CSOG: Slab on Ground	22.3	Enclosed	0.0	Carpet

Ceiling type

Location	Material	Added insulation	Roof space above
Garage	Plasterboard	6.0	No
Ent	Plasterboard	6.0	No
Bedroom 3	Plasterboard	6.0	No
Living	Plasterboard	6.0	No
Bedroom 2	Plasterboard	6.0	No
Bath	Plasterboard	6.0	No
Pdr	Plasterboard	6.0	No
Office	Plasterboard	6.0	No
Kitchen/Living	Plasterboard	6.0	No

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wip	Plasterboard	6.0	No
pass	Plasterboard	6.0	No
wil	Plasterboard	6.0	No
L'dry	Plasterboard	6.0	No
wir	Plasterboard	6.0	No
wc	Plasterboard	6.0	No
ens	Plasterboard	6.0	No
Bedroom 1	Plasterboard	6.0	No

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
Ent	4	Downlights	100	100	Sealed
Bedroom 3	2	Downlights	100	100	Sealed
Living	7	Downlights	100	100	Sealed
Bedroom 2	2	Downlights	100	100	Sealed
Bath	2	Downlights	100	100	Sealed
Bath	1	Exhaust Fans	100	100	Sealed
Pdr	1	Downlights	100	100	Sealed
Office	2	Downlights	100	100	Sealed
Kitchen/Living	21	Downlights	100	100	Sealed
Kitchen/Living	1	Exhaust Fans	100	100	Sealed
Kitchen/Living	1	Heater Flues	0	0	Unsealed
wip	2	Downlights	100	100	Sealed
pass	2	Downlights	100	100	Sealed
wil	1	Downlights	100	100	Sealed
L'dry	3	Downlights	100	100	Sealed
wir	3	Downlights	100	100	Sealed
wc	1	Downlights	100	100	Sealed
ens	2	Downlights	100	100	Sealed
ens	1	Exhaust Fans	100	100	Sealed
Bedroom 1	6	Downlights	100	100	Sealed

Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Framed:Flat - Flat Framed (Metal Deck)	0.6	medium

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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 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