

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 002XUUQSLK

Date of Certificate: 1 Jul 2019

★ Star rating: 6.1



Assessor details

Accreditation number: VIC/BDAV/17/1823
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Declaration of interest: Employed by designer of the building
Software: FirstRate5: 5.2.10b (3.13)
AAO: BDAV

Overview

Dwelling details

Address: 14 Baker Ave Morphettville, Dwelling 2
Suburb: Morphettville
State: SA Postcode: 5043
Type: New Home NCC Class: Class 1a
Lot/DP number: 14 NatHERS climate zone: 16
Exposure: suburban

Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick venner
Roof: Colorbond
Floor: Slab on ground
Insulation: Wall: R2.5 Batts
Roof: R4.0 Batts
Floor: Nil
Glazing: Aluminium
Single glazed, clear

Net floor area (m²)

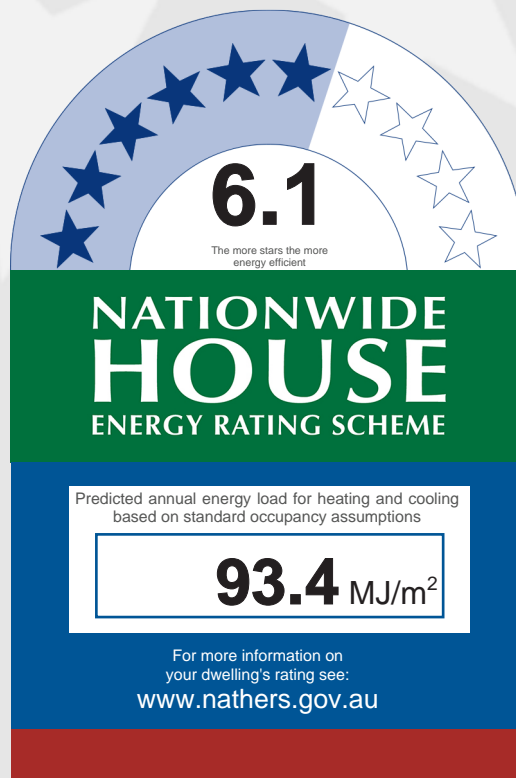
Conditioned: 97.3
Unconditioned: 13
Garage: 18.3
TOTAL: 128.6

Annual thermal performance loads (MJ/m²)

Heating: 66.9
Cooling: 26.5
TOTAL: 93.4

Plan documents

Plan ref/date: CARTER - PD.100-201 (plans) B
Prepared by: Dan Ferrone



Ceiling penetrations

(see following pages for details)

Sealed: 3
Unsealed: 0
TOTAL:** 3

Principal downlight type: No downlights modelled

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.

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If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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/QRCodeLand ing?PublicId=002XUUQSLK>

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Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
STG-007-01 A	Aluminium Sliding Window SG 3Clr	6.34	0.73
STG-005-02 A	Aluminium Sliding Door SG 5Clr	6.25	0.72
TND-021-01 A	Trend Al Hinged Door SG 4Clr T	6.03	0.61
STG-002-01 A	Aluminium Awning Window SG 3Clr	6.46	0.65

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
STG-007-01 A	Opening 18	772	1800	N	Bedroom 2	No
STG-007-01 A	Opening 19	772	1800	N	Bedroom 3	No
STG-005-02 A	Opening 25	2100	4000	W	Kitchen/Living	No
STG-007-01 A	Opening 20	600	1800	S	Kitchen/Living	No
STG-007-01 A	Opening 21	600	1800	S	Kitchen/Living	No
TND-021-01 A	Opening 26	2100	820	S	L'DRY	No
STG-007-01 A	Opening 22	944	700	S	WC	No
STG-007-01 A	Opening 23	944	1200	S	BATH	No
STG-007-01 A	Opening 24	944	600	W	ENS	No
STG-002-01 A	Opening 16	1800	700	E	Bedroom 1	No
STG-002-01 A	Opening 17	1800	700	E	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 : WT - Brick Veneer	Rockwool batt: R2.5 (R2.5)	No
2 : FR5 - Brick Cavity		No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
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1 : WT - Brick Veneer	9.7	N	Bedroom 2	No	Yes
1 : WT - Brick Veneer	9.6	N	Bedroom 3	No	Yes
1 : WT - Brick Veneer	2.7	S	Garage	Yes	No
2 : FR5 - Brick Cavity	7.7	E	Garage	Yes	Yes
1 : WT - Brick Veneer	16.6	N	Garage	No	Yes
1 : WT - Brick Veneer	2.8	E	hall	Yes	Yes
1 : WT - Brick Veneer	17.9	N	Kitchen/Living	No	Yes
1 : WT - Brick Veneer	16.8	W	Kitchen/Living	No	Yes
1 : WT - Brick Veneer	19	S	Kitchen/Living	Yes	Yes
1 : WT - Brick Veneer	6.4	S	L'DRY	Yes	Yes
1 : WT - Brick Veneer	4.4	S	WC	Yes	Yes
1 : WT - Brick Veneer	7.2	S	BATH	Yes	Yes
1 : WT - Brick Veneer	4	S	ENS	No	No
1 : WT - Brick Veneer	2.7	W	ENS	Yes	Yes
1 : WT - Brick Veneer	4.8	S	WIR	No	No
1 : WT - Brick Veneer	10.1	S	Bedroom 1	No	No
1 : WT - Brick Veneer	8	E	Bedroom 1	Yes	Yes
1 : WT - Brick Veneer	5.6	N	Bedroom 1	Yes	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	132.6	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 2	FR5 - CSOG: Slab on Ground	10.8	Enclosed	R0.0	Carpet
Bedroom 3	FR5 - CSOG: Slab on Ground	10.7	Enclosed	R0.0	Carpet
Garage	FR5 - CSOG: Slab on Ground	18.3	Enclosed	R0.0	none
hall	FR5 - CSOG: Slab on Ground	13	Enclosed	R0.0	Vinyl
Kitchen/Living	FR5 - CSOG: Slab on Ground	42.5	Enclosed	R0.0	Vinyl
L'DRY	FR5 - CSOG: Slab on Ground	4.7	Enclosed	R0.0	Tiles
P'DR	FR5 - CSOG: Slab on Ground	1.6	Enclosed	R0.0	Tiles
WC	FR5 - CSOG: Slab on Ground	1.4	Enclosed	R0.0	Tiles
BATH	FR5 - CSOG: Slab on Ground	5.3	Enclosed	R0.0	Tiles

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ENS	FR5 - CSOG: Slab on Ground	4.4	Enclosed	R0.0	Tiles
WIR	FR5 - CSOG: Slab on Ground	4.8	Enclosed	R0.0	Carpet
Bedroom 1	FR5 - CSOG: Slab on Ground	11.1	Enclosed	R0.0	Carpet

Ceiling type

Location	Material	Added insulation	Roof space above
Bedroom 2	Plasterboard	R4.0	Yes
Bedroom 3	Plasterboard	R4.0	Yes
Garage	Plasterboard	R4.0	Yes
hall	Plasterboard	R4.0	Yes
Kitchen/Living	Plasterboard	R4.0	Yes
L'DRY	Plasterboard	R4.0	Yes
P'DR	Plasterboard	R4.0	Yes
WC	Plasterboard	R4.0	Yes
BATH	Plasterboard	R4.0	Yes
ENS	Plasterboard	R4.0	Yes
WIR	Plasterboard	R4.0	Yes
Bedroom 1	Plasterboard	R4.0	Yes

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
Kitchen/Living	1	Exhaust Fans	160	160	Sealed
BATH	1	Exhaust Fans	160	160	Sealed
ENS	1	Exhaust Fans	160	160	Sealed

Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	0.0	medium

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Additional information

Exhaust fans have been modelled over all showers and one over the cooktop in the kitchen.

All ceiling penetrations are to be sealed.

If downlights are to be installed, they must be rated for insulation to abut or cover the lights as no downlights have been modelled.

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