

Nationwide House Energy Rating Scheme* Certificate



Certificate number: 0003553161

Certificate Date: 22 Jan 2019

★ Star rating: 6.2

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/13/1536**
Name: **Paul Patane**
Organisation: **Enatap Energy Ratings**
Email: **enatap@optusnet.com.au**
Phone: **0427 700133**
Declaration of interest: **None**
Software: **BERS Pro v4.3.0.2d (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Street: **Res 3, 638 Burbridge Road**
Suburb: **West Beach**
State: **SA** Postcode: **5024**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **16**
Lot/DP number: **638/TBA** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **AAC cavity panel on battens**
Corrugated Iron
Concrete Slab on Ground
Insulation: **R2.5 wall insulation**
R5.0 ceiling insulation
No floor insulation
Glazing: **AL-001-04 A Al Awning SG 4Clr**

Net floor area (m²)

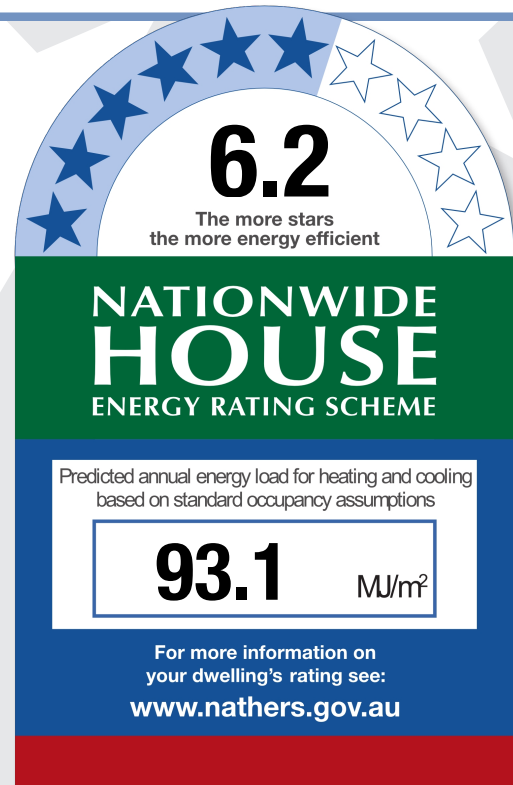
Conditioned: **161.0**
Unconditioned: **56.0**
Garage: **41.0**
TOTAL: **216.0**

Annual thermal performance loads (MJ/m²)

Heating: **51.5**
Cooling: **41.6**
TOTAL: **93.1**

Plan documents

Plan ref/date: **QD1268**
Prepared by: **QD**



Ceiling penetrations

(see following pages for details)

Sealed: **3**
Unsealed: **0**
TOTAL:** **3**

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

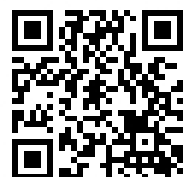
Note on allowable window values:
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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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★ Star rating:

6.2



Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
AL-012-04 A	AL-012-04 A Al Sliding Door SG 4Clr	6.1	0.72
AL-001-04 A	AL-001-04 A Al Awning SG 4Clr	5.8	0.65
AL-003-04 A	AL-003-04 A Al Sliding Window SG 4Clr	6.1	0.76
AL-025-04 A	AL-025-04 A Al Boutique Fixed Lite Window SG 4Clr	5.7	0.75

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	AL-012-04 A	n/a	2100	3600	NE	No Shading
Kitchen/Living	AL-001-04 A	n/a	2100	900	SE	No Shading
Kitchen/Living	AL-001-04 A	n/a	2100	2100	SE	No Shading
WC	AL-003-04 A	n/a	900	600	NE	No Shading
Ldry	AL-003-04 A	n/a	900	600	NW	No Shading
Media	AL-001-04 A	n/a	1200	1800	NE	No Shading
Stairwell	AL-025-04 A	n/a	2100	600	NE	No Shading
Stairwell	AL-025-04 A	n/a	2100	600	NE	No Shading
Bedroom 1	AL-001-04 A	n/a	700	1800	NE	No Shading
Bedroom 1	AL-012-04 A	n/a	2100	2400	SE	No Shading
Bedroom 2	AL-001-04 A	n/a	1800	1800	NE	No Shading
Bedroom 3	AL-001-04 A	n/a	2100	2100	SE	No Shading
WIR	AL-025-04 A	n/a	1800	900	SE	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	Bulk Insulation R2.5	No
EW-2	AAC cavity panel on battens	Bulk Insulation R2.5	No
EW-3	EPS Cavity Panel on Battens	Bulk Insulation R2.5	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/Living	EW-1	6695	2700	NE	No	3500
Kitchen/Living	EW-2	600	2700	NE	No	3100
Kitchen/Living	EW-2	5400	2700	SE	No	100
Entry	EW-2	3995	2700	NW	No	13400
Entry	EW-2	3395	2700	NE	No	100

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0003553161**

Certificate Date:

22 Jan 2019

★ Star rating:

6.2



Building features continued

Entry	EW-2	1790	2700	SE	No	1800
WC	EW-2	2595	2700	NE	No	300
WC	EW-2	995	2700	SE	No	1800
Ldry	EW-2	1695	2700	NW	No	300
Garage 1	EW-2	595	2700	NW	No	300
Garage 1	EW-2	4100	2700	SW	No	300
Garage 1	EW-2	6041	2700	N	No	152
Garage 1	EW-2	6300	2700	NE	No	300
Garage 1	EW-2	4100	2700	SE	No	14500
Media	EW-3	1000	2701	SW	No	100
Media	EW-3	4500	2700	NW	No	500
Media	EW-3	3595	2700	NE	No	500
Stairwell	EW-3	1000	2700	NW	No	4500
Stairwell	EW-3	2895	2700	NE	No	500
Bedroom 1	EW-3	400	2700	NW	No	3400
Bedroom 1	EW-3	3700	2700	NE	No	100
Bedroom 1	EW-3	3895	2700	SE	No	1800
Bedroom 2	EW-3	2700	2700	NW	No	500
Bedroom 2	EW-3	3995	2700	NE	No	500
Bedroom 3	EW-3	3095	2700	SE	No	100
WIR	EW-3	595	2701	SE	No	1800
WIR	EW-3	995	2700	SE	No	100

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	198.0	No insulation	No
IW-2 - Shaft liner party wall with plaster	79.0	No Insulation	No

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	Concrete Slab on Ground 100mm	56.9	None	No Insulation	Ceramic Tiles 8mm
WIP	Concrete Slab on Ground 100mm	4.5	None	No Insulation	Ceramic Tiles 8mm
Entry	Concrete Slab on Ground 100mm	15.0	None	No Insulation	Ceramic Tiles 8mm
WC	Concrete Slab on Ground 100mm	2.4	None	No Insulation	Ceramic Tiles 8mm
Ldry	Concrete Slab on Ground 100mm	4.7	None	No Insulation	Ceramic Tiles 8mm
Garage 1	Concrete Slab on Ground 100mm	41.4	None	No Insulation	Bare
Media/Kitchen/Living	Timber Above Plasterboard 19mm	17.4		Bulk Insulation R2	Carpet+Rubber Underlay 18mm

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0003553161**

Certificate Date:

22 Jan 2019

★ Star rating:

6.2



Building features continued

Media/Ldry	Timber Above Plasterboard 19mm	1.5		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Media/Garage 1	Timber Above Plasterboard 19mm	2.5		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Media	Suspended Timber Floor 19mm	0.8	Open	Bulk Insulation, Gap to Floor R2	Carpet+Rubber Underlay 18mm
Passage/Kitchen/Living	Timber Above Plasterboard 19mm	9.6		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Study/Kitchen/Living	Timber Above Plasterboard 19mm	2.7		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Stairwell/Entry	Timber Above Plasterboard 19mm	5.8		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	2.5		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 1/Entry	Timber Above Plasterboard 19mm	5.9		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 1/WC	Timber Above Plasterboard 19mm	2.5		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 1	Suspended Timber Floor 19mm	3.1	Open	Bulk Insulation, Gap to Floor R2	Carpet+Rubber Underlay 18mm
Bedroom 2/Kitchen/Living	Timber Above Plasterboard 19mm	1.2		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 2	Suspended Timber Floor 19mm	11.7	Open	Bulk Insulation, Gap to Floor R2	Carpet+Rubber Underlay 18mm
Bedroom 3/Kitchen/Living	Timber Above Plasterboard 19mm	10.5		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
WIR/Kitchen/Living	Timber Above Plasterboard 19mm	4.2		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
ENS/Kitchen/Living	Timber Above Plasterboard 19mm	2.0		Bulk Insulation R2	Ceramic Tiles 8mm
ENS/Entry	Timber Above Plasterboard 19mm	2.9		Bulk Insulation R2	Ceramic Tiles 8mm
WIR 2/Kitchen/Living	Timber Above Plasterboard 19mm	1.9		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
WIR 2/WIP	Timber Above Plasterboard 19mm	1.1		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bath/Kitchen/Living	Timber Above Plasterboard 19mm	2.3		Bulk Insulation R2	Ceramic Tiles 8mm
Bath/WIP	Timber Above Plasterboard 19mm	2.1		Bulk Insulation R2	Ceramic Tiles 8mm
WC/WIP	Timber Above Plasterboard 19mm	1.0		Bulk Insulation R2	Ceramic Tiles 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/Living	Timber Above Plasterboard	Bulk Insulation R2	No
WIP	Timber Above Plasterboard	Bulk Insulation	No

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0003553161**

Certificate Date:

22 Jan 2019

★ Star rating:

6.2



Building features continued

Entry	Timber Above Plasterboard	R2	Bulk Insulation	No
WC	Timber Above Plasterboard	R2	Bulk Insulation	No
Ldry	Plasterboard	R5	Bulk Insulation	Yes
Ldry	Timber Above Plasterboard	R2	Bulk Insulation	No
Garage 1	Plasterboard	R5	Bulk Insulation	Yes
Garage 1	Timber Above Plasterboard	R2	Bulk Insulation	No
Media	Plasterboard	R5	Bulk Insulation	Yes
Passage	Plasterboard	R5	Bulk Insulation	Yes
Study	Plasterboard	R5	Bulk Insulation	Yes
Stairwell	Plasterboard	R5	Bulk Insulation	Yes
Bedroom 1	Plasterboard	R5	Bulk Insulation	Yes
Bedroom 2	Plasterboard	R5	Bulk Insulation	Yes
Bedroom 3	Plasterboard	R5	Bulk Insulation	Yes
WIR	Plasterboard	R5	Bulk Insulation	Yes
ENS	Plasterboard	R5	Bulk Insulation	Yes
WIR 2	Plasterboard	R5	Bulk Insulation	Yes
Bath	Plasterboard	R5	Bulk Insulation	Yes
WC	Plasterboard	R5	Bulk Insulation	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
ENS	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

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Certificate number: **0003553161**

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6.2



Building features continued

Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	No Insulation, Only an Air Gap	Medium

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Additional information

Where recessed downlights are incorporated, IC Rated downlights or downlights with insulated covers must be fitted. Therefore insulation penetration/adjustment not applicable.

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