

# Nationwide House Energy Rating Scheme\* Certificate



Certificate number: **0003553153**

Certificate Date: **22 Jan 2019**

★ Star rating: **6.9**

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 2, 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 (m<sup>2</sup>)

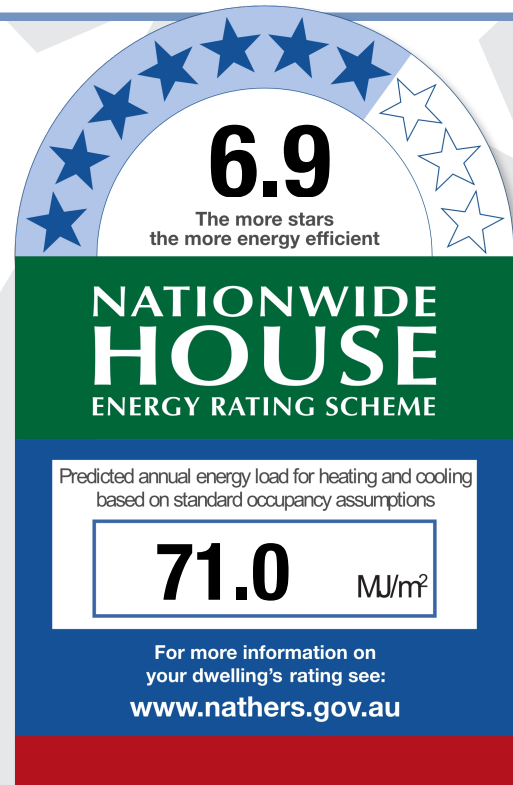
Conditioned: **142.0**  
Unconditioned: **55.0**  
Garage: **37.0**  
TOTAL: **197.0**

### Annual thermal performance loads (MJ/m<sup>2</sup>)

Heating: **46.2**  
Cooling: **24.8**  
TOTAL: **71.0**

### 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

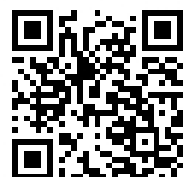
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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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## 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-025-04 A	AL-025-04 A Al Boutique Fixed Lite Window SG 4Clr	5.7	0.75
AL-001-04 A	AL-001-04 A Al Awning SG 4Clr	5.8	0.65

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	AL-012-04 A	n/a	2100	3600	NW	No Shading
Entry	AL-025-04 A	n/a	2400	500	SE	No Shading
Media	AL-001-04 A	n/a	1800	900	SE	No Shading
Media	AL-001-04 A	n/a	1800	900	SE	No Shading
Bedroom 1	AL-001-04 A	n/a	1800	600	SE	No Shading
Bedroom 1	AL-001-04 A	n/a	1800	600	SE	No Shading
Bedroom 1	AL-001-04 A	n/a	1800	600	SE	No Shading
Stairwell	AL-025-04 A	n/a	2100	600	SE	No Shading
Bedroom 2	AL-001-04 A	n/a	1200	1800	NW	No Shading
Bedroom 3	AL-001-04 A	n/a	1200	1800	NW	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 <sup>2</sup> )	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	8400	2700	NW	No	3600
Entry	EW-2	2195	2700	SE	No	1200
Garage 1	EW-2	6200	2700	SE	No	300
Garage 1	EW-2	400	2700	SW	No	2300
Media	EW-2	3795	2700	SE	No	500
Bedroom 1	EW-2	3595	2700	SE	No	500
Bedroom 1	EW-2	400	2700	SW	No	1100
Stairwell	EW-2	995	2700	SE	No	900
Bedroom 2	EW-3	3695	2700	NW	No	500

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Bedroom 3	EW-3	3095	2700	NW	No	500
WIR 2	EW-3	1590	2700	NW	No	500

## Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	201.0	No insulation	No
IW-2 - Shaft liner party wall with plaster	130.0	No Insulation	No

## Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	Concrete Slab on Ground 100mm	53.7	None	No Insulation	Ceramic Tiles 8mm
Entry	Concrete Slab on Ground 100mm	8.3	None	No Insulation	Ceramic Tiles 8mm
Garage 1	Concrete Slab on Ground 100mm	37.5	None	No Insulation	Bare
Media/Garage 1	Timber Above Plasterboard 100mm	18.6		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 1/Entry	Timber Above Plasterboard 100mm	4.4		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 1/Garage	Timber Above Plasterboard 100mm	8.8		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
WIR/Garage 1	Timber Above Plasterboard 19mm	4.2		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
ENS/Kitchen/Living	Timber Above Plasterboard 19mm	4.2		Bulk Insulation R2	Ceramic Tiles 8mm
Passage/Kitchen/Living	Timber Above Plasterboard 19mm	8.5		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Passage/Garage 1	Timber Above Plasterboard 19mm	0.8		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Passage/Ldry	Timber Above Plasterboard 19mm	2.0		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Stairwell/Kitchen/Living	Timber Above Plasterboard 19mm	4.0		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Stairwell/Entry	Timber Above Plasterboard 19mm	3.7		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 2/Kitchen/Living	Timber Above Plasterboard 19mm	11.9		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 3/Kitchen/Living	Timber Above Plasterboard 19mm	9.9		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
WC/Kitchen/Living	Timber Above Plasterboard 19mm	1.0		Bulk Insulation R2	Ceramic Tiles 8mm
Bath/Garage 1	Timber Above Plasterboard 19mm	3.3		Bulk Insulation R2	Ceramic Tiles 8mm
Bath/Ldry	Timber Above Plasterboard 19mm	1.7		Bulk Insulation R2	Ceramic Tiles 8mm
Ldry	Concrete Slab on Ground 19mm	3.7	None	No Insulation	Ceramic Tiles 8mm

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## Building features continued

WIR 2/Kitchen/Living	Timber Above Plasterboard 19mm	2.5	Bulk Insulation R2	Carpet+Rubber Underlay 18mm
WIR 3/Kitchen/Living	Timber Above Plasterboard 19mm	2.3	Bulk Insulation R2	Carpet+Rubber Underlay 18mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/Living	Plasterboard	Bulk Insulation R5	Yes
Kitchen/Living	Timber Above Plasterboard	Bulk Insulation R2	No
Entry	Timber Above Plasterboard	Bulk Insulation R2	No
Garage 1	Timber Above Plasterboard	Bulk Insulation R2	No
Media	Plasterboard	Bulk Insulation R5	Yes
Bedroom 1	Plasterboard	Bulk Insulation R5	Yes
WIR	Plasterboard	Bulk Insulation R5	Yes
ENS	Plasterboard	Bulk Insulation R5	Yes
Passage	Plasterboard	Bulk Insulation R5	Yes
Stairwell	Plasterboard	Bulk Insulation R5	Yes
Bedroom 2	Plasterboard	Bulk Insulation R5	Yes
Bedroom 3	Plasterboard	Bulk Insulation R5	Yes
WC	Plasterboard	Bulk Insulation R5	Yes
Bath	Plasterboard	Bulk Insulation R5	Yes
Ldry	Timber Above Plasterboard	Bulk Insulation R2	No
WIR 2	Plasterboard	Bulk Insulation R5	Yes
WIR 3	Plasterboard	Bulk Insulation R5	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

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### Building features continued

#### Ceiling fans

Location	Number	Diameter (mm)
None Present		

#### Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	No Insulation, Only an Air Gap	Medium
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](http://www.nathers.gov.au)

For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)