

# Nationwide House Energy Rating Scheme\* Certificate



Certificate number: 0003663408-02

Certificate Date: 06 Mar 2019

★ Star rating: 5.3

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: **20731**  
Name: **Brad Hoad**  
Organisation: **Thermal Performance**  
Email: **brad@thermalperformance.com.au**  
Phone: **0458-221-211**  
Declaration of interest: **None**  
Software: **BERS Pro v4.3.0.2d (3.13)**  
AAO: **ABSA**

## Overview

### Dwelling details

Street: **Unit Main, 98 Elimatta Road**  
Suburb: **MONA VALE**  
State: **NSW** Postcode: **2103**  
Type: **New Dwelling** NCC Class: **1A**  
NatHERS climate zone: **56**  
Lot/DP number: **1/1238126** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Weatherboard Cavity Panel Direct Fix Corrugated Iron Waffle pod slab 225 mm**  
Insulation: **R2.0 wall insulation R4.0 ceiling insulation No floor insulation**  
Glazing: **WID-006-01 A AI Residential Sliding Window SG 3mm Clear**

### Net floor area (m<sup>2</sup>)

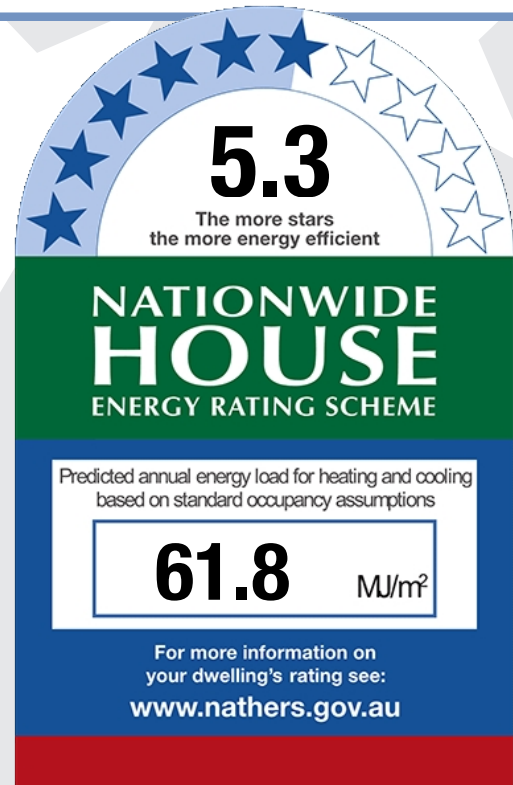
Conditioned: **212.0**  
Unconditioned: **51.0**  
Garage: **40.0**  
TOTAL: **264.0**

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

Heating: **36.3**  
Cooling: **25.5**  
TOTAL: **61.8**

### Plan documents

Plan ref/date: **17271**  
Prepared by: **Wincrest Homes**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*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
WID-006-01 A	WID-006-01 A AI Residential Sliding Window SG 3mm Clear	6.4	0.76
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.4	0.56
WID-010-04 A	WID-010-04 A AI Architectural Paragon Sliding Door SG 6.38CP	4.7	0.39
WID-001-01 A	WID-001-01 A AI Residential Awning Window SG 3mm Clear	6.5	0.63

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Study	WID-006-01 A	n/a	1400	1800	SE	No Shading
Laundry	TIM-001-01 W	n/a	2040	820	SE	No Shading
Media	WID-006-01 A	n/a	2100	2100	NW	No Shading
Kitchen/Living	WID-006-01 A	n/a	1400	1800	SE	No Shading
Kitchen/Living	WID-006-01 A	n/a	430	1500	SE	No Shading
Kitchen/Living	WID-006-01 A	n/a	2100	2100	NW	Horizontal Vegetation
Kitchen/Living	WID-006-01 A	n/a	2100	2100	NW	Horizontal Vegetation
Kitchen/Living	WID-010-04 A	n/a	2400	3600	NE	No Shading
Kitchen/Living	WID-010-04 A	n/a	2400	3600	NE	No Shading
Bedroom 1	WID-001-01 A	n/a	1200	2700	NE	No Shading
Bedroom 2	WID-006-01 A	n/a	600	2700	SE	No Shading
Ensuite	WID-001-01 A	n/a	1500	600	SE	No Shading
Bath	WID-006-01 A	n/a	1200	1500	SE	No Shading
Bedroom 3	WID-006-01 A	n/a	1400	1800	NW	No Shading
Bedroom 4	WID-006-01 A	n/a	1400	1800	NW	No Shading
Living	WID-006-01 A	n/a	1200	2700	NW	No Shading
Living	WID-010-04 A	n/a	2100	3300	NE	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	Weatherboard Cavity Panel Direct Fix	Foil, Anti-glare one side, Reflective other	Yes
EW-2	Weatherboard Cavity Panel Direct Fix	Anti-glare foil with bulk no gap R2	Yes

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves
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## Building features continued

						(mm)
Garage	EW-1	7000	2525	SW	No	0
Garage	EW-1	5795	2525	NW	No	2400
Garage	EW-2	295	2525	SE	No	600
Garage	EW-1	400	2525	NE	No	15800
Garage	EW-1	5500	2525	SE	No	0
Study	EW-2	2490	2525	SE	No	600
Laundry	EW-2	1790	2525	SE	No	600
Media	EW-2	3900	2525	NW	No	600
Media	EW-2	2700	2525	NE	No	11600
Media	EW-2	3995	2525	SW	No	5800
Entry	EW-2	1990	2525	NW	No	3300
Kitchen/Living	EW-2	7595	3050	SE	No	600
Kitchen/Living	EW-2	2100	3050	SW	No	11700
Kitchen/Living	EW-2	6600	3050	NW	No	0
Kitchen/Living	EW-2	4500	3050	NE	No	3000
Kitchen/Living	EW-2	600	3050	SE	No	6100
Kitchen/Living	EW-2	5500	3050	NE	No	3600
Bedroom 1	EW-2	3695	2450	SE	No	600
Bedroom 1	EW-2	5095	2450	NE	No	600
Bedroom 2	EW-2	3995	2450	SE	No	600
Ensuite	EW-2	2290	2450	SE	No	600
Bath	EW-2	1895	2450	SE	No	600
Bath	EW-2	700	2450	SW	No	4000
Bedroom 3	EW-2	3895	2450	NW	No	600
Bedroom 3	EW-2	900	2450	SW	No	0
Bedroom 4	EW-2	4090	2450	NW	No	600
Living	EW-2	600	2450	SE	No	5700
Living	EW-2	4495	2450	NW	No	600
Living	EW-2	4500	2450	NE	No	2300

## Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Cavity wall, plasterboard on battens one side	17.0	Bulk Insulation, No Air Gap R4.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	175.0	No insulation	No
IW-3 - Shaft liner party wall with plaster	20.0	Bulk Insulation both sides of shaft liner R2	No

## Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Garage	Waffle pod slab 225 mm 100mm	40.1	None	Waffle Pod 225mm	Bare
Study	Waffle pod slab 225 mm 100mm	10.5	None	Waffle Pod	Cork Tiles or

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Laundry	Waffle pod slab 225 mm 100mm	5.4	None	225mm	Parquetry 8mm
Powder	Waffle pod slab 225 mm 100mm	3.8	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Media	Waffle pod slab 225 mm 100mm	15.4	None	Waffle Pod 225mm	Carpet 10mm
Entry	Waffle pod slab 225 mm 100mm	16.9	None	Waffle Pod 225mm	Cork Tiles or Parquetry 8mm
Kitchen/Living	Waffle pod slab 225 mm 100mm	65.2	None	Waffle Pod 225mm	Cork Tiles or Parquetry 8mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	23.3		No Insulation	Carpet 10mm
Bedroom 2/Study	Timber Above Plasterboard 19mm	8.0		No Insulation	Carpet 10mm
Bedroom 2/Laundry	Timber Above Plasterboard 19mm	3.1		No Insulation	Carpet 10mm
Bedroom 2/Entry	Timber Above Plasterboard 19mm	1.8		No Insulation	Carpet 10mm
Ensuite/Kitchen/Living	Timber Above Plasterboard 19mm	6.3		No Insulation	Ceramic Tiles 8mm
Bath/Laundry	Timber Above Plasterboard 19mm	0.8		No Insulation	Ceramic Tiles 8mm
Bath/Powder	Timber Above Plasterboard 19mm	2.9		No Insulation	Ceramic Tiles 8mm
Bath/Kitchen/Living	Timber Above Plasterboard 19mm	2.1		No Insulation	Ceramic Tiles 8mm
WC/Powder	Timber Above Plasterboard 19mm	0.5		No Insulation	Ceramic Tiles 8mm
WC/Entry	Timber Above Plasterboard 19mm	0.8		No Insulation	Ceramic Tiles 8mm
Bedroom 3/Media	Timber Above Plasterboard 19mm	12.9		No Insulation	Carpet 10mm
Bedroom 4/Entry	Timber Above Plasterboard 19mm	2.5		No Insulation	Carpet 10mm
Bedroom 4/Kitchen/Living	Timber Above Plasterboard 19mm	6.9		No Insulation	Carpet 10mm
Bedroom 4	Suspended Timber Floor 19mm	4.1	Totally Open	No Insulation	Carpet 10mm
Living/Entry	Timber Above Plasterboard 19mm	11.8		No Insulation	Carpet 10mm
Living/Kitchen/Living	Timber Above Plasterboard 19mm	21.8		No Insulation	Carpet 10mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Garage	Plasterboard	Bulk Insulation R2.5	No
Study	Plasterboard	Bulk Insulation R4	Yes
Study	Timber Above Plasterboard	No Insulation	No
Laundry	Plasterboard	Bulk Insulation R4	Yes

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### Building features continued

Laundry	Timber Above Plasterboard	No Insulation	No
Powder	Timber Above Plasterboard	No Insulation	No
Media	Plasterboard	Bulk Insulation R4	Yes
Media	Timber Above Plasterboard	No Insulation	No
Entry	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Plasterboard	Bulk Insulation R4	Yes
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R4	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4	Yes
Ensuite	Plasterboard	Bulk Insulation R4	Yes
Bath	Plasterboard	Bulk Insulation R4	Yes
WC	Plasterboard	Bulk Insulation R4	Yes
Bedroom 3	Plasterboard	Bulk Insulation R4	Yes
Bedroom 4	Plasterboard	Bulk Insulation R4	Yes
Living	Plasterboard	Bulk Insulation R4	Yes

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Powder	1	Exhaust Fans	300	Sealed
WC	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	Foil, Gap Above, Reflective Side Down, Anti-glare Up	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 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)



## Nationwide House Energy Rating Scheme\* — Multiple-dwelling summary



Certificate number: **0003663490**

Certificate Date: **06 Mar 2019**

★ Average Star rating: **5.7**

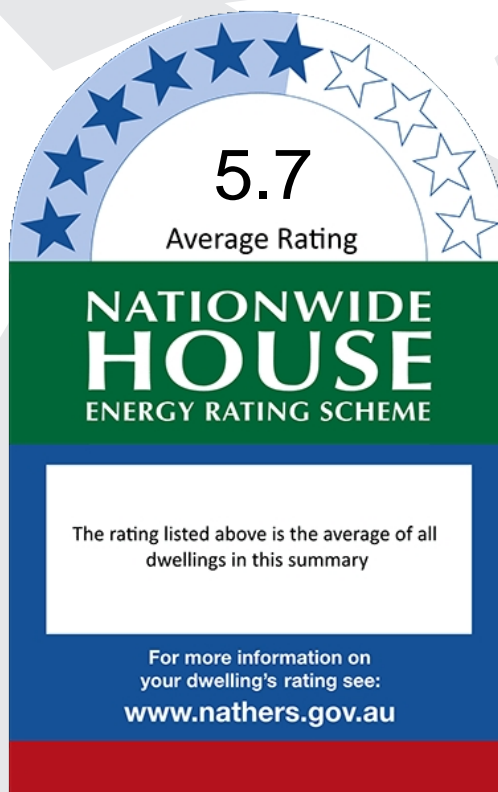
### Assessor details

Accreditation number: **20731**  
Name: **Brad Hoad**  
Organisation: **Thermal Performance**  
Email: **brad@thermalperformance.com.au**  
Phone: **0458-221-211**  
Declaration of interest: **None**  
Software: **BERS Pro v4.3.0.2d (3.13)**  
AAO: **ABSA**

### Dwelling details

Street: **98 Elimatta Road**  
Suburb: **MONA VALE**  
State: **NSW**  
Postcode: **2103**

Scan to access this certificate online and confirm this is valid.



## Summary of all dwellings

### Certificate Details

Certificate number	Dwelling/Unit number	Heating load	Cooling load	Total load	Star Rating
0003663408-02	Main	36.3	25.5	61.8	5.3
0003663465	Secondary	24.0	25.9	49.9	6.1