

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004580601

Certificate Date: 11 Feb 2020

★ Star rating: 5.8



## Assessor details

Accreditation number: **20753**  
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Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **ABSA**

## Overview

### Dwelling details

Street: **Proposed Road**  
Suburb: **WERRINGTON DOWNS**  
State: **NSW** Postcode: **2747**  
Type: **New Dwelling** NCC Class: **1A**  
NatHERS climate zone: **28**  
Lot/DP number: **1103/.** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Corrugated Iron**  
**Waffle pod slab 225 mm**  
Insulation: **R2.5 wall insulation**  
**R4.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

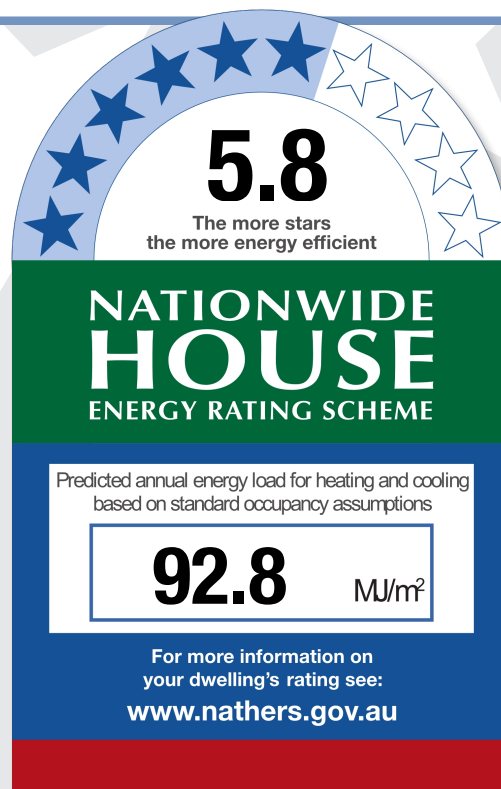
Conditioned: **149.0**  
Unconditioned: **46.0**  
Garage: **31.0**  
TOTAL: **195.0**

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

Heating: **55.5**  
Cooling: **37.3**  
TOTAL: **92.8**

### Plan documents

Plan ref/date: **0040143**  
Prepared by: **AN Design**



### Ceiling penetrations

(see following pages for details)

Sealed: **66**  
Unsealed: **0**  
TOTAL:\*\* **66**

\*\*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: **LED**

### 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**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**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
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58
AIR-006-12 A	AIR-006-12 A Aluminium Sliding Door SG 6mm Planibel G	4.4	0.61
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70
AIR-002-10 A	AIR-002-10 A Aluminium Awning Window SG 4mm Planibel G	5.2	0.54
ALM-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.7	0.57

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kit/Live/Dine	ALM-002-03 A	n/a	700	3000	S	No Shading
Kit/Live/Dine	ALM-002-03 A	n/a	1800	1800	N	No Shading
Kit/Live/Dine	AIR-006-12 A	n/a	2400	1900	E	No Shading
Kit/Live/Dine	AIR-006-12 A	n/a	2400	2500	N	No Shading
Kit/Live/Dine	ALM-002-03 A	n/a	1800	1800	E	No Shading
Multi	ALM-002-03 A	n/a	1800	1800	N	No Shading
PR	ALM-002-01 A	n/a	1800	600	S	No Shading
Laundry	ALM-002-01 A	n/a	2100	1500	N	No Shading
Hall/IT	AIR-002-10 A	n/a	1300	800	W	No Shading
Bed 4	ALM-002-03 A	n/a	700	1800	E	No Shading
Bed 3	ALM-002-03 A	n/a	700	1800	E	No Shading
Bed 2	ALM-002-03 A	n/a	1000	1800	N	Vertical Louvres, Horizontal Blades
Bath	ALM-001-01 A	n/a	1500	600	S	No Shading
Ensuite	ALM-002-01 A	n/a	1200	600	N	No Shading
WIR	AIR-002-10 A	n/a	1200	600	W	No Shading
Bed 1	AIR-002-10 A	n/a	1200	800	W	No Shading
Bed 1	AIR-006-12 A	n/a	2100	1800	W	No Shading
Bed 1	AIR-002-10 A	n/a	1200	800	W	No Shading
Upper hall	ALM-002-03 A	n/a	1200	1200	S	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 (m²)	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	Single Skin Brick	No insulation	No
EW-3	Fibro Cavity Panel Direct Fix	Bulk Insulation R2.5	No

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### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kit/Live/Dine	EW-1	9145	2550	S	No	50
Kit/Live/Dine	EW-1	4195	2550	N	No	50
Kit/Live/Dine	EW-1	3050	2550	E	No	3100
Kit/Live/Dine	EW-1	2500	2550	N	No	3650
Kit/Live/Dine	EW-1	3500	2550	E	No	600
Multi	EW-1	3040	2550	N	No	50
PR	EW-1	2390	2550	S	No	50
Laundry	EW-1	1690	2550	N	No	50
Hall/IT	EW-1	2500	2550	W	No	1150
Hall/IT	EW-1	1000	2550	N	No	4100
Hall/IT	EW-1	6445	2550	S	No	50
Garage	EW-2	5595	2550	W	No	2150
Garage	EW-2	5550	2550	N	No	50
Garage	EW-2	1550	2550	E	No	50
Bed 4	EW-1	3645	2400	S	No	600
Bed 4	EW-3	3495	2400	E	No	600
Bed 3	EW-1	4045	2400	N	No	600
Bed 3	EW-3	3045	2400	E	No	600
Bed 2	EW-3	495	2400	N	No	600
Bed 2	EW-1	3245	2400	N	No	600
Bath	EW-1	3290	2400	S	No	600
Ensuite	EW-3	2140	2400	N	No	600
WIR	EW-3	1145	2400	W	No	600
WIR	EW-3	3895	2400	N	No	600
Bed 1	EW-1	3895	2400	S	No	600
Bed 1	EW-1	5395	2400	W	No	1550
Upper hall	EW-1	2990	2400	S	No	600

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	141.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	24.0	Bulk Insulation, No Air Gap R2.5	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Kit/Live/Dine	Waffle pod slab 225 mm 100mm	40.4	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Multi	Waffle pod slab 225 mm 100mm	11.5	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
PR	Waffle pod slab 225 mm 100mm	3.2	None	Waffle Pod 225mm	Ceramic Tiles 8mm

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Laundry	Waffle pod slab 225 mm 100mm	4.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Hall/IT	Waffle pod slab 225 mm 100mm	21.8	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Garage	Waffle pod slab 225 mm 100mm	30.6	None	Waffle Pod 225mm	Bare
Bed 4/Kit/Live/Dine	Timber Above Plasterboard 100mm	11.1		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Kit/Live/Dine	Timber Above Plasterboard 20mm	7.6		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Multi	Timber Above Plasterboard 20mm	4.5		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2/Multi	Timber Above Plasterboard 20mm	4.5		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2/Laundry	Timber Above Plasterboard 20mm	4.7		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2/Garage	Timber Above Plasterboard 20mm	1.5		Bulk Insulation R4	Carpet+Rubber Underlay 18mm
Bath/Kit/Live/Dine	Timber Above Plasterboard 20mm	1.9		No Insulation	Ceramic Tiles 8mm
Bath/PR	Timber Above Plasterboard 20mm	2.7		No Insulation	Ceramic Tiles 8mm
Bath/Hall/IT	Timber Above Plasterboard 20mm	2.5		No Insulation	Ceramic Tiles 8mm
Ensuite/Garage	Timber Above Plasterboard 20mm	6.2		Bulk Insulation R4	Ceramic Tiles 8mm
WIR/Garage	Timber Above Plasterboard 20mm	4.7		Bulk Insulation R4	Carpet+Rubber Underlay 18mm
WIR	Suspended Timber Floor 19mm	1.4	Totally Open	Bulk Insulation in Contact with Floor R4	Carpet+Rubber Underlay 18mm
Bed 1/Hall/IT	Timber Above Plasterboard 19mm	9.5		No Insulation	Carpet+Rubber Underlay 18mm
Bed 1/Garage	Timber Above Plasterboard 19mm	6.7		Bulk Insulation R4	Carpet+Rubber Underlay 18mm
Bed 1	Suspended Timber Floor 19mm	2.6	Totally Open	Bulk Insulation in Contact with Floor R4	Carpet+Rubber Underlay 18mm
Upper hall/Multi	Timber Above Plasterboard 19mm	2.3		No Insulation	Carpet+Rubber Underlay 18mm
Upper hall/PR	Timber Above Plasterboard 19mm	0.6		No Insulation	Carpet+Rubber Underlay 18mm
Upper hall/Hall/IT	Timber Above Plasterboard 19mm	9.2		No Insulation	Carpet+Rubber Underlay 18mm
Upper hall/Garage	Timber Above Plasterboard 19mm	2.5		Bulk Insulation R4	Carpet+Rubber Underlay 18mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Kit/Live/Dine	Plasterboard	Bulk Insulation R4	Yes
Kit/Live/Dine	Timber Above Plasterboard	No Insulation	No

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Multi	Timber Above Plasterboard	No Insulation	No
PR	Timber Above Plasterboard	No Insulation	No
Laundry	Timber Above Plasterboard	No Insulation	No
Hall/IT	Timber Above Plasterboard	No Insulation	No
Garage	Plasterboard	No insulation	Yes
Garage	Timber Above Plasterboard	Bulk Insulation R4	No
Bed 4	Plasterboard	Bulk Insulation R4	Yes
Bed 3	Plasterboard	Bulk Insulation R4	Yes
Bed 2	Plasterboard	Bulk Insulation R4	Yes
Bath	Plasterboard	Bulk Insulation R4	Yes
Ensuite	Plasterboard	Bulk Insulation R4	Yes
WIR	Plasterboard	Bulk Insulation R4	Yes
Bed 1	Plasterboard	Bulk Insulation R4	Yes
Upper hall	Plasterboard	Bulk Insulation R4	Yes

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kit/Live/Dine	15	Downlights - LED	150	Sealed
Kit/Live/Dine	1	Exhaust Fans	150	Sealed
Multi	5	Downlights - LED	150	Sealed
PR	1	Downlights - LED	150	Sealed
Laundry	2	Downlights - LED	150	Sealed
Hall/IT	9	Downlights - LED	150	Sealed
Bed 4	5	Downlights - LED	150	Sealed
Bed 3	5	Downlights - LED	150	Sealed
Bed 2	5	Downlights - LED	150	Sealed
Bath	1	Exhaust Fans	150	Sealed
Ensuite	2	Downlights - LED	150	Sealed
Ensuite	1	Exhaust Fans	150	Sealed
WIR	2	Downlights - LED	150	Sealed
Bed 1	6	Downlights - LED	150	Sealed
Upper hall	6	Downlights - LED	150	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

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#### Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	Bulk, Reflective Side Down, Anti-glare Up R1	Dark

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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)

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For more details see [www.nathers.gov.au](http://www.nathers.gov.au)