

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004571121

Certificate Date: 06 Feb 2020

★ Star rating: 7.1



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: **Chapman Street**
Suburb: **WERRINGTON DOWNS**
State: **NSW** Postcode: **2747**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **28**
Lot/DP number: **1104/.** 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-002-01 A Aluminium B SG Clear**

Net floor area (m²)

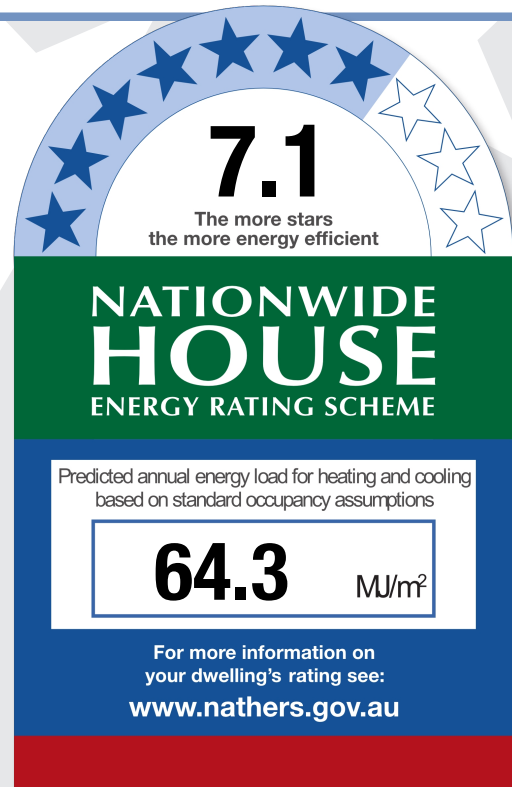
Conditioned: **138.0**
Unconditioned: **39.0**
Garage: **30.0**
TOTAL: **177.0**

Annual thermal performance loads (MJ/m²)

Heating: **38.6**
Cooling: **25.7**
TOTAL: **64.3**

Plan documents

Plan ref/date: **0040144**
Prepared by: **AN Design**



Ceiling penetrations

(see following pages for details)

Sealed: **63**
Unsealed: **0**
TOTAL:** **63**

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If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kit/Dine/Fam	ALM-002-01 A	n/a	1800	1200	N	No Shading
Kit/Dine/Fam	ALM-002-01 A	n/a	2400	3200	E	No Shading
Kit/Dine/Fam	ALM-002-01 A	n/a	2400	1800	N	No Shading
Kit/Dine/Fam	ALM-002-01 A	n/a	1300	2400	E	No Shading
Laundry	ALM-002-01 A	n/a	2100	1500	S	No Shading
Bedroom 4	ALM-002-01 A	n/a	1000	1800	S	No Shading
Bedroom 3	ALM-002-01 A	n/a	1000	1800	N	No Shading
Bedroom 2	ALM-002-01 A	n/a	1000	1800	N	No Shading
Bedroom 1	ALM-002-01 A	n/a	1800	1400	W	No Shading
Bedroom 1	ALM-002-01 A	n/a	1800	400	W	No Shading
Ensuite	ALM-002-01 A	n/a	900	600	S	No Shading
Bath	ALM-002-01 A	n/a	900	1500	S	No Shading
Living/hall	ALM-002-01 A	n/a	1000	1800	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	Fibro Cavity Panel Direct Fix	Bulk Insulation R2.5	No
EW-3	Single Skin Brick	No insulation	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kit/Dine/Fam	EW-1	4295	2550	S	No	600
Kit/Dine/Fam	EW-1	4645	2550	N	No	600
Kit/Dine/Fam	EW-1	4000	2550	E	No	3650
Kit/Dine/Fam	EW-1	3050	2550	N	No	4600
Kit/Dine/Fam	EW-1	5550	2550	E	No	600
Laundry	EW-1	1690	2550	S	No	600
Bedroom 4	EW-1	3090	2550	S	No	600
Bedroom 3	EW-1	3090	2550	N	No	600

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Bedroom 2	EW-1	3040	2550	N	No	600
Bedroom 1	EW-1	3495	2550	S	No	600
Bedroom 1	EW-2	350	2550	S	No	600
Bedroom 1	EW-2	3600	2550	W	No	1200
Bedroom 1	EW-2	1000	2550	N	No	7050
Ensuite	EW-1	2090	2550	S	No	600
Bath	EW-1	1940	2550	S	No	600
Living/hall	EW-1	1440	2550	W	No	2200
Living/hall	EW-1	3390	2550	S	No	600
Garage	EW-3	5545	2550	W	No	600
Garage	EW-3	5550	2550	N	No	50
Garage	EW-3	1050	2550	E	No	14450

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	137.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	26.0	Bulk Insulation, No Air Gap R2.5	No

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Kit/Dine/Fam	Waffle pod slab 225 mm 100mm	50.7	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Laundry	Waffle pod slab 225 mm 100mm	3.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bedroom 4	Waffle pod slab 225 mm 100mm	11.6	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bedroom 3	Waffle pod slab 225 mm 100mm	11.4	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bedroom 2	Waffle pod slab 225 mm 100mm	11.3	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bedroom 1	Waffle pod slab 225 mm 100mm	13.6	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Ensuite	Waffle pod slab 225 mm 100mm	4.0	None	Waffle Pod 225mm	Ceramic Tiles 8mm
WIR	Waffle pod slab 225 mm 100mm	2.9	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bath	Waffle pod slab 225 mm 100mm	5.1	None	Waffle Pod 225mm	Ceramic Tiles 8mm
WC	Waffle pod slab 225 mm 100mm	1.3	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Living/hall	Waffle pod slab 225 mm 100mm	30.9	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Garage	Waffle pod slab 225 mm 100mm	30.4	None	Waffle Pod 225mm	Bare

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Building features continued

Ceiling type

Location	Construction	Added insulation	Roof space above
Kit/Dine/Fam	Plasterboard	Bulk Insulation R4	Yes
Laundry	Plasterboard	Bulk Insulation R4	Yes
Bedroom 4	Plasterboard	Bulk Insulation R4	Yes
Bedroom 3	Plasterboard	Bulk Insulation R4	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4	Yes
Bedroom 1	Plasterboard	Bulk Insulation R4	Yes
Ensuite	Plasterboard	Bulk Insulation R4	Yes
WIR	Plasterboard	Bulk Insulation R4	Yes
Bath	Plasterboard	Bulk Insulation R4	Yes
WC	Plasterboard	Bulk Insulation R4	Yes
Living/hall	Plasterboard	Bulk Insulation R4	Yes
Garage	Plasterboard	No insulation	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kit/Dine/Fam	20	Downlights - LED	150	Sealed
Kit/Dine/Fam	1	Exhaust Fans	150	Sealed
Laundry	1	Downlights - LED	150	Sealed
Bedroom 4	4	Downlights - LED	150	Sealed
Bedroom 3	4	Downlights - LED	150	Sealed
Bedroom 2	4	Downlights - LED	150	Sealed
Bedroom 1	5	Downlights - LED	150	Sealed
Ensuite	1	Downlights - LED	150	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
WIR	1	Downlights - LED	150	Sealed
Bath	2	Downlights - LED	150	Sealed
Bath	1	Exhaust Fans	300	Sealed
WC	1	Downlights - LED	150	Sealed
WC	1	Exhaust Fans	150	Sealed
Living/hall	16	Downlights - LED	150	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

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Building features continued

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

For more information on energy efficient design and insulation visit www.yourhome.gov.au

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For more details see www.nathers.gov.au