

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0004380010**

Certificate Date: **20 Nov 2019**

★ Star rating: **5.9**

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/13/1524**
Name: **Manthee Chetty**
Organisation: **Home Design Services**
Email: **mantheechetty@gmail.com**
Phone: **98364127**
Declaration of interest: **None**
Software: **BERS Pro v4.3.0.2f (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Street: **PRINGLE AVENUE**
Suburb: **BELROSE**
State: **NSW** Postcode: **2085**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **23/222901** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**
Roof Tiles
Waffle pod slab 300 mm
Insulation: **R2.0 wall insulation**
R4.1 ceiling insulation
No floor insulation
Glazing: **ALM-002-01 A Aluminium B SG Clear**

Net floor area (m²)

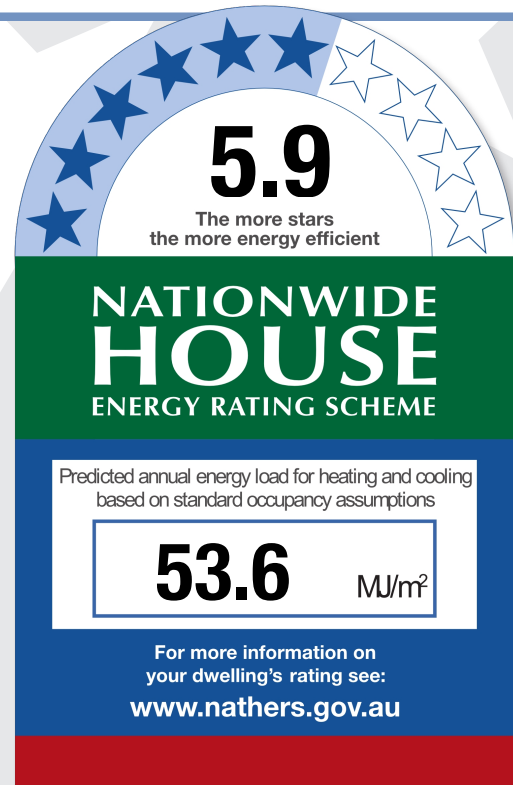
Conditioned: **238.0**
Unconditioned: **51.0**
Garage: **35.0**
TOTAL: **289.0**

Annual thermal performance loads (MJ/m²)

Heating: **31.8**
Cooling: **21.8**
TOTAL: **53.6**

Plan documents

Plan ref/date: **706658 - LOT 23**
Prepared by: **METRICON - PG**



Ceiling penetrations

(see following pages for details)

Sealed: **4**
Unsealed: **0**
TOTAL:** **4**

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

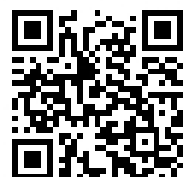
Note on allowable window values:
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70
TIM-002-01 W	TIM-002-01 W Timber B SG Clear	5.4	0.63
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.4	0.56
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
Kitchen/FAM/DIN	ALM-002-01 A	n/a	500	3600	S	No Shading
Kitchen/FAM/DIN	ALM-002-01 A	n/a	1800	2700	N	No Shading
Kitchen/FAM/DIN	ALM-002-01 A	n/a	2370	3216	E	No Shading
Kitchen/FAM/DIN	ALM-002-01 A	n/a	2370	2707	N	No Shading
Kitchen/FAM/DIN	ALM-002-01 A	n/a	2370	3216	E	No Shading
THEATRE/GUE ST	ALM-002-01 A	n/a	1800	1800	N	No Shading
ENTRY	TIM-002-01 W	n/a	2340	350	W	No Shading
ENTRY	TIM-002-01 W	n/a	2340	350	W	No Shading
LAUNDRY	TIM-001-01 W	n/a	900	600	S	No Shading
PWDR	ALM-001-01 A	n/a	1800	600	S	No Shading
GUEST	ALM-001-01 A	n/a	1800	600	S	No Shading
GUEST	ALM-001-01 A	n/a	1800	600	S	No Shading
GUEST	ALM-001-01 A	n/a	1800	600	W	No Shading
GUEST	ALM-002-01 A	n/a	1700	872	W	No Shading
GUEST	ALM-002-01 A	n/a	1700	550	N	No Shading
WIR	ALM-001-01 A	n/a	1500	600	W	No Shading
Bedroom 1	ALM-002-01 A	n/a	2045	3250	W	No Shading
Bedroom 1	ALM-002-01 A	n/a	500	3000	N	No Shading
ENSUITE	ALM-002-01 A	n/a	300	1200	S	No Shading
LEISURE	ALM-001-01 A	n/a	500	2400	W	No Shading
LEISURE	ALM-001-01 A	n/a	500	3600	N	No Shading
Bedroom 2	ALM-001-01 A	n/a	1200	600	S	No Shading
Bedroom 2	ALM-001-01 A	n/a	1200	600	S	No Shading
Bedroom 3	ALM-002-01 A	n/a	1200	1800	S	No Shading
BATH	ALM-002-01 A	n/a	500	1500	E	No Shading
Bedroom 4	ALM-002-01 A	n/a	1200	1800	E	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						

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External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Reflective foil with bulk no gap R2	Yes
EW-2	Cavity Brick	No insulation	No
EW-3	Brick Veneer	No insulation	No
EW-4	EPS Cavity Panel Direct Fix	Reflective foil with bulk no gap R2	Yes

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/FAM/DIN	EW-1	3600	2550	S	No	600
Kitchen/FAM/DIN	EW-1	4995	2551	S	No	100
Kitchen/FAM/DIN	EW-1	4895	2550	N	No	100
Kitchen/FAM/DIN	EW-1	5200	2550	E	No	4300
Kitchen/FAM/DIN	EW-1	3700	2550	N	No	5800
Kitchen/FAM/DIN	EW-1	4700	2550	E	No	600
PANTRY	EW-1	1395	2550	S	No	100
PANTRY	EW-1	495	2551	S	No	1200
THEATRE/GUEST	EW-1	595	2551	N	No	2400
THEATRE/GUEST	EW-1	2995	2550	N	No	100
Garage	EW-1	300	2550	S	No	6100
Garage	EW-2	5700	2550	W	No	600
Garage	EW-3	6300	2550	N	No	600
Garage	EW-3	1800	2550	E	No	600
ENTRY	EW-1	2590	2550	W	No	2600
LAUNDRY	EW-1	600	2550	E	No	500
LAUNDRY	EW-1	2195	2550	S	No	600
PWDR	EW-1	2695	2550	S	No	600
PWDR	EW-1	600	2550	W	No	600
GUEST	EW-1	595	2551	S	No	1200
GUEST	EW-1	3000	2550	S	No	100
GUEST	EW-1	1300	2551	W	No	200
GUEST	EW-1	2100	2550	W	No	1800
GUEST	EW-1	800	2550	N	No	8900
WIR	EW-4	1000	2551	W	No	700
WIR	EW-4	795	2550	W	No	2200
WIR	EW-4	4495	2550	S	No	700
Bedroom 1	EW-4	4195	2550	W	No	2200
Bedroom 1	EW-4	5095	2550	N	No	700
ENSUITE	EW-4	2290	2550	S	No	700
LEISURE	EW-4	1095	2550	N	No	700
LEISURE	EW-4	600	2551	N	No	4600
LEISURE	EW-4	700	2551	W	No	9000
LEISURE	EW-4	3200	2550	W	No	700
LEISURE	EW-4	4695	2550	N	No	700
Bedroom 2	EW-4	4190	2550	S	No	700
Bedroom 3	EW-4	2995	2550	E	No	700
Bedroom 3	EW-4	4295	2550	S	No	700
BATH	EW-4	3090	2550	E	No	700

* 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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Bedroom 4	EW-4	3795	2550	N	No	700
Bedroom 4	EW-4	3795	2550	E	No	700

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, plasterboard on battens one side	210.0	No insulation	No
IW-2 - Cavity wall, plasterboard on battens one side	25.0	Bulk Insulation, No Air Gap R2	No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/FAM/DIN	Waffle pod slab 300 mm 100mm	65.4	None	Waffle Pod 300mm	Ceramic Tiles 8mm
PANTRY	Waffle pod slab 300 mm 100mm	5.3	None	Waffle Pod 300mm	Ceramic Tiles 8mm
THEATRE/GUEST	Waffle pod slab 300 mm 100mm	13.4	None	Waffle Pod 300mm	Carpet 10mm
Garage	Waffle pod slab 300 mm 100mm	35.4	None	Waffle Pod 300mm	Bare
ENTRY	Waffle pod slab 300 mm 100mm	28.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
LAUNDRY	Waffle pod slab 300 mm 100mm	7.5	None	Waffle Pod 300mm	Carpet 10mm
PWDR	Waffle pod slab 300 mm 100mm	5.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
WC	Waffle pod slab 300 mm 100mm	1.3	None	Waffle Pod 300mm	Ceramic Tiles 8mm
GUEST	Waffle pod slab 300 mm 100mm	12.8	None	Waffle Pod 300mm	Carpet 10mm
WIR/PWDR	Timber Above Plasterboard 19mm	1.6		No Insulation	Carpet 10mm
WIR/GUEST	Timber Above Plasterboard 19mm	6.2		No Insulation	Carpet 10mm
Bedroom 1/ENTRY	Timber Above Plasterboard 19mm	10.4		No Insulation	Carpet 10mm
Bedroom 1/GUEST	Timber Above Plasterboard 19mm	6.6		No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 19mm	0.0	Totally Open	No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 19mm	2.0	Totally Open	No Insulation	Carpet 10mm
WC/ENTRY	Timber Above Plasterboard 19mm	1.5		No Insulation	Ceramic Tiles 8mm
ENSUITE/ENTRY	Timber Above Plasterboard 19mm	2.5		No Insulation	Ceramic Tiles 8mm
ENSUITE/LAUNDRY	Timber Above Plasterboard 19mm	1.4		No Insulation	Ceramic Tiles 8mm
ENSUITE/PWDR	Timber Above Plasterboard 19mm	2.0		No Insulation	Ceramic Tiles 8mm
ENSUITE/WC	Timber Above Plasterboard	0.9		No Insulation	Ceramic Tiles

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	19mm			8mm
LEISURE/Kitchen/FAM/DIN	Timber Above Plasterboard 19mm	10.1	No Insulation	Carpet 10mm
LEISURE/THEATR E/GUEST	Timber Above Plasterboard 19mm	13.6	No Insulation	Carpet 10mm
LEISURE/ENTRY	Timber Above Plasterboard 19mm	13.9	No Insulation	Carpet 10mm
Bedroom 2/Kitchen/FAM/DIN	Timber Above Plasterboard 19mm	1.2	No Insulation	Carpet 10mm
Bedroom 2/PANTRY	Timber Above Plasterboard 19mm	5.4	No Insulation	Carpet 10mm
Bedroom 2/LAUNDRY	Timber Above Plasterboard 19mm	4.9	No Insulation	Carpet 10mm
Bedroom 3/Kitchen/FAM/DIN	Timber Above Plasterboard 19mm	11.9	No Insulation	Carpet 10mm
WC/Kitchen/FAM/DIN	Timber Above Plasterboard 19mm	1.5	No Insulation	Ceramic Tiles 8mm
BATH/Kitchen/FAM/DIN	Timber Above Plasterboard 19mm	7.9	No Insulation	Ceramic Tiles 8mm
Bedroom 4/Kitchen/FAM/DIN	Timber Above Plasterboard 19mm	14.0	No Insulation	Carpet 10mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Kitchen/FAM/DIN	Plasterboard	Bulk Insulation R4.1	Yes
Kitchen/FAM/DIN	Timber Above Plasterboard	No Insulation	No
PANTRY	Timber Above Plasterboard	No Insulation	No
THEATRE/GUEST	Timber Above Plasterboard	No Insulation	No
Garage	Plasterboard	No insulation	Yes
ENTRY	Timber Above Plasterboard	No Insulation	No
LAUNDRY	Plasterboard	Bulk Insulation R4.1	Yes
LAUNDRY	Timber Above Plasterboard	No Insulation	No
PWDR	Plasterboard	Bulk Insulation R4.1	Yes
PWDR	Timber Above Plasterboard	No Insulation	No
WC	Timber Above Plasterboard	No Insulation	No
GUEST	Timber Above Plasterboard	No Insulation	No
WIR	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 1	Plasterboard	Bulk Insulation R4.1	Yes
WC	Plasterboard	Bulk Insulation R4.1	Yes
ENSUITE	Plasterboard	Bulk Insulation R4.1	Yes
LEISURE	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4.1	Yes

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Bedroom 3	Plasterboard	Bulk Insulation R4.1	Yes
WC	Plasterboard	Bulk Insulation R4.1	Yes
BATH	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 4	Plasterboard	Bulk Insulation R4.1	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/FAM/DIN	1	Exhaust Fans	300	Sealed
WC	1	Exhaust Fans	300	Sealed
WC	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
Roof Tiles	Bulk, Reflective Side Down, No Air Gap Above R1.3	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