

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004501292

Certificate Date: 09 Jan 2020

★ Star rating: 6.3



## Assessor details

Accreditation

number: **VIC/BDAV/13/1524**

Name: **Manthee Chetty**

Organisation: **Home Design Sevices**

Email: **mantheechetty@gmail.com**

Phone: **0478098780**

Declaration of interest: **None**

Software: **BERS Pro v4.4.0.0 (3.21)**

AAO: **BDAV**

## Overview

### Dwelling details

Street: **WOODSIDE GROVE**

Suburb: **FORESTVILLE**

State: **NSW**

Postcode: **2087**

Type: **New Dwelling**

NCC Class: **1A**

NatHERS

climate zone: **56**

Lot/DP

number: **14/30742**

Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Weatherboard Cavity Panel Direct Fix Roof Tiles**

**Waffle pod slab 300 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 (m<sup>2</sup>)

Conditioned: **249.0**

Unconditioned: **84.0**

Garage: **44.0**

TOTAL: **334.0**

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

Heating: **33.6**

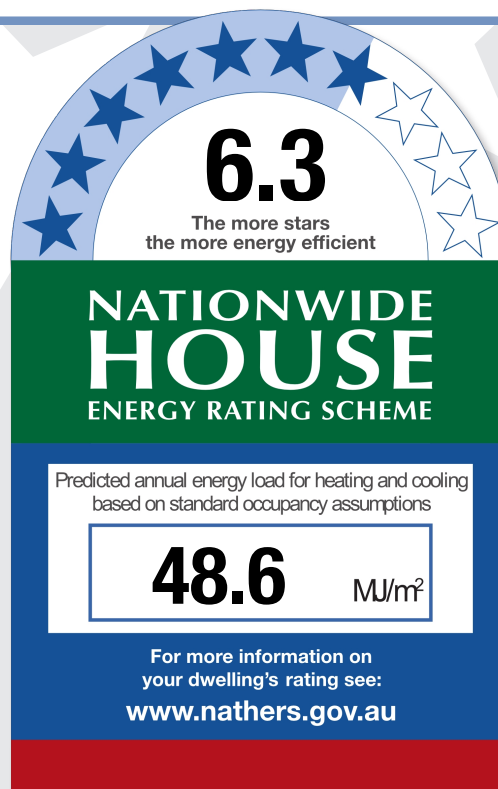
Cooling: **15.0**

TOTAL: **48.6**

### Plan documents

Plan ref/date: **0446 - LOT 14**

Prepared by: **BETTER BUILT HOMES - JV**



### 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

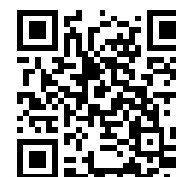
Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70
ALM-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.7	0.57
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

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/LOUNG E/	ALM-002-01 A	n/a	2400	5300	N	No Shading
Kitchen/LOUNG E/	ALM-001-01 A	n/a	2100	600	N	No Shading
Kitchen/LOUNG E/	ALM-001-01 A	n/a	2100	1400	N	No Shading
Kitchen/LOUNG E/	ALM-001-01 A	n/a	1000	1200	E	No Shading
Kitchen/LOUNG E/	ALM-001-01 A	n/a	2000	1200	W	No Shading
PWDR	ALM-002-01 A	n/a	1200	900	E	No Shading
OFFICE/GUEST	ALM-002-01 A	n/a	1200	900	E	No Shading
OFFICE/GUEST	ALM-002-01 A	n/a	1200	900	S	No Shading
OFFICE/GUEST	ALM-002-01 A	n/a	1200	900	S	No Shading
ENTRY	TIM-002-01 W	n/a	2340	250	S	No Shading
ENTRY	TIM-002-01 W	n/a	2340	250	S	No Shading
LAUNDRY/MUD	TIM-001-01 W	n/a	1000	820	W	No Shading
LAUNDRY/MUD	ALM-002-01 A	n/a	1000	600	W	No Shading
Garage	ALM-002-01 A	n/a	1000	600	N	No Shading
Bedroom 1	ALM-001-01 A	n/a	2000	900	N	No Shading
Bedroom 1	ALM-002-01 A	n/a	1200	1600	S	No Shading
ENSUITE	ALM-002-01 A	n/a	600	600	W	No Shading
ENSUITE	ALM-002-01 A	n/a	1200	900	N	No Shading
ENSUITE	ALM-002-01 A	n/a	1200	900	S	No Shading
Night Time 2	ALM-002-01 A	n/a	600	600	W	No Shading
WIR	ALM-002-01 A	n/a	1200	1600	S	No Shading
VOID	ALM-002-01 A	n/a	250	250	S	No Shading
FAMILY	ALM-002-01 A	n/a	1200	900	E	No Shading
FAMILY	ALM-002-01 A	n/a	1200	900	E	No Shading
FAMILY	ALM-002-01 A	n/a	1200	900	E	No Shading
BATH	ALM-002-01 A	n/a	1200	900	W	No Shading
BATH	ALM-002-01 A	n/a	1200	900	W	No Shading
Bedroom 4	ALM-002-01 A	n/a	1200	900	E	No Shading
Bedroom 4	ALM-002-01 A	n/a	1200	900	S	No Shading
Bedroom 4	ALM-002-01 A	n/a	1200	1600	S	No Shading
Bedroom 3	ALM-002-01 A	n/a	1200	1600	N	No Shading
Bedroom 3	ALM-002-01 A	n/a	1200	900	E	No Shading
Bedroom 2	ALM-002-01 A	n/a	1200	900	W	No Shading
Bedroom 2	ALM-002-01 A	n/a	1200	1600	N	No Shading

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### 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	Bulk Insulation R2.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/LOUNGE/	EW-1	7600	2750	N	No	4800
Kitchen/LOUNGE/	EW-1	2000	2750	E	No	700
Kitchen/LOUNGE/	EW-1	700	2751	N	No	6800
Kitchen/LOUNGE/	EW-1	2000	2750	N	No	100
Kitchen/LOUNGE/	EW-1	5795	2750	E	No	100
Kitchen/LOUNGE/	EW-1	3395	2750	W	No	100
Kitchen/LOUNGE/	EW-1	800	2750	S	No	100
Kitchen/LOUNGE/	EW-1	1200	2750	W	No	100
Kitchen/LOUNGE/	EW-1	800	2750	N	No	100
Kitchen/LOUNGE/	EW-1	1400	2750	W	No	100
Kitchen/LOUNGE/	EW-1	1900	2751	W	No	700
BUTLER	EW-1	2090	2750	E	No	1900
PWDR	EW-1	1200	2750	N	No	2100
PWDR	EW-1	2095	2750	E	No	100
OFFICE/GUEST	EW-1	3595	2750	E	No	100
OFFICE/GUEST	EW-1	1900	2750	S	No	2200
OFFICE/GUEST	EW-1	600	2750	E	No	2100
OFFICE/GUEST	EW-1	2000	2750	S	No	1600
OFFICE/GUEST	EW-1	600	2750	W	No	9000
ENTRY	EW-1	2990	2750	S	No	2200
LAUNDRY/MUD	EW-1	2490	2750	W	No	1400
Garage	EW-1	600	2750	E	No	7100
Garage	EW-1	5900	2750	S	No	700
Garage	EW-1	1100	2750	W	No	100
Garage	EW-1	2600	2750	S	No	100
Garage	EW-1	3900	2750	W	No	100
Garage	EW-1	2600	2750	N	No	100
Garage	EW-1	800	2750	W	No	100
Garage	EW-1	1300	2750	N	No	2600
Bedroom 1	EW-1	1300	2600	N	No	9100
Bedroom 1	EW-1	595	2601	S	No	900

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Bedroom 1	EW-1	3300	2600	S	No	500
Bedroom 1	EW-1	500	2600	W	No	3300
Bedroom 1	EW-1	800	2600	W	No	3300
ENSUITE	EW-1	1995	2600	W	No	700
ENSUITE	EW-1	2000	2600	N	No	600
ENSUITE	EW-1	595	2601	N	No	1300
ENSUITE	EW-1	595	2601	S	No	1000
ENSUITE	EW-1	895	2600	S	No	700
Night Time 2	EW-1	1095	2600	S	No	700
Night Time 2	EW-1	1895	2600	W	No	700
WIR	EW-1	600	2600	E	No	7600
WIR	EW-1	2000	2600	S	No	300
WIR	EW-1	600	2600	W	No	4500
VOID	EW-1	595	2601	S	No	900
VOID	EW-1	1900	2600	S	No	700
VOID	EW-1	495	2601	S	No	900
FAMILY	EW-1	2195	2600	E	No	700
FAMILY	EW-1	2100	2601	E	No	1900
FAMILY	EW-1	600	2601	N	No	8600
FAMILY	EW-1	600	2600	N	No	2100
FAMILY	EW-1	1695	2600	E	No	700
BATH	EW-1	495	2601	W	No	1900
BATH	EW-1	4295	2600	W	No	700
Bedroom 4	EW-1	3995	2600	E	No	700
Bedroom 4	EW-1	1400	2600	S	No	700
Bedroom 4	EW-1	500	2601	S	No	900
Bedroom 4	EW-1	600	2600	E	No	2600
Bedroom 4	EW-1	2000	2600	S	No	300
Bedroom 4	EW-1	600	2600	W	No	9500
Bedroom 3	EW-1	5195	2600	N	No	700
Bedroom 3	EW-1	3595	2600	E	No	700
Bedroom 2	EW-1	3595	2600	W	No	700
Bedroom 2	EW-1	5095	2600	N	No	700

## Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Cavity wall, plasterboard on battens one side	237.0	No insulation	No
IW-2 - Cavity wall, plasterboard on battens one side	27.0	Bulk Insulation, No Air Gap R2.5	No

## Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Kitchen/LOUNGE/	Waffle pod slab 300 mm 100mm	80.6	None		

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BUTLER	Waffle pod slab 300 mm 100mm	5.3	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
PWDR	Waffle pod slab 300 mm 100mm	7.7	None	Waffle Pod 300mm	Ceramic Tiles 8mm
OFFICE/GUEST	Waffle pod slab 300 mm 100mm	14.8	None	Waffle Pod 300mm	Carpet 10mm
ENTRY	Waffle pod slab 300 mm 100mm	14.9	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
LAUNDRY/MUD	Waffle pod slab 300 mm 100mm	13.5	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Garage	Waffle pod slab 300 mm 100mm	43.8	None	Waffle Pod 300mm	Bare
Bedroom 1/Garage	Timber Above Plasterboard 19mm	22.4		Bulk Insulation R4	Carpet 10mm
ENSUITE/Garage	Timber Above Plasterboard 19mm	7.7		Bulk Insulation R4	Ceramic Tiles 8mm
Night Time 2/Garage	Timber Above Plasterboard 19mm	1.9		Bulk Insulation R4	Ceramic Tiles 8mm
WIR/Garage	Timber Above Plasterboard 19mm	8.1		Bulk Insulation R4	Carpet 10mm
VOID/ENTRY	Timber Above Plasterboard 19mm	10.2		No Insulation	Carpet 10mm
FAMILY/Kitchen/LOUNGE/	Timber Above Plasterboard 19mm	21.2		No Insulation	Carpet 10mm
FAMILY/BUTLER	Timber Above Plasterboard 19mm	5.5		No Insulation	Carpet 10mm
FAMILY/PWDR	Timber Above Plasterboard 19mm	6.4		No Insulation	Carpet 10mm
FAMILY/ENTRY	Timber Above Plasterboard 19mm	4.5		No Insulation	Carpet 10mm
FAMILY/LAUNDRY/MUD	Timber Above Plasterboard 19mm	5.8		No Insulation	Carpet 10mm
WC/Kitchen/LOUNGE/	Timber Above Plasterboard 19mm	1.1		No Insulation	Ceramic Tiles 8mm
WC/LAUNDRY/MUD	Timber Above Plasterboard 19mm	0.6		No Insulation	Ceramic Tiles 8mm
BATH/Kitchen/LOUNGE/	Timber Above Plasterboard 19mm	4.6		No Insulation	Ceramic Tiles 8mm
BATH/LAUNDRY/MUD	Timber Above Plasterboard 19mm	7.2		No Insulation	Ceramic Tiles 8mm
Bedroom 4/PWDR	Timber Above Plasterboard 19mm	1.5		No Insulation	Carpet 10mm
Bedroom 4/OFFICE/GUEST	Timber Above Plasterboard 19mm	14.9		No Insulation	Carpet 10mm
Bedroom 3/Kitchen/LOUNGE/	Timber Above Plasterboard 19mm	18.2		No Insulation	Carpet 10mm
Bedroom 2/Kitchen/LOUNGE/	Timber Above Plasterboard 19mm	17.9		No Insulation	Carpet 10mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
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Kitchen/LOUNGE/	Plasterboard	Bulk Insulation R4	Yes
Kitchen/LOUNGE/	Timber Above Plasterboard	No Insulation	No
BUTLER	Timber Above Plasterboard	No Insulation	No
PWDR	Timber Above Plasterboard	No Insulation	No
OFFICE/GUEST	Timber Above Plasterboard	No Insulation	No
ENTRY	Timber Above Plasterboard	No Insulation	No
LAUNDRY/MUD	Timber Above Plasterboard	No Insulation	No
Garage	Plasterboard	Bulk Insulation R4	Yes
Garage	Timber Above Plasterboard	Bulk Insulation R4	No
Bedroom 1	Plasterboard	Bulk Insulation R4	Yes
ENSUITE	Plasterboard	Bulk Insulation R4	Yes
Night Time 2	Plasterboard	Bulk Insulation R4	Yes
WIR	Plasterboard	Bulk Insulation R4	Yes
VOID	Plasterboard	Bulk Insulation R4	Yes
FAMILY	Plasterboard	Bulk Insulation R4	Yes
WC	Plasterboard	Bulk Insulation R4	Yes
BATH	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

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/LOUNG E/	1	Exhaust Fans	300	Sealed
Kitchen/LOUNG E/	1	Chimneys	0	Sealed
WC	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

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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](http://www.nathers.gov.au)

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