

Nationwide House Energy Rating Scheme* Certificate



Certificate number: 0000871822

Certificate Date: 18 Oct 2016

★ Star rating: 5.6

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: 20753
Name: Christina Silman
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Declaration of interest: None
Software: BERS Pro v4.3.0.1 (3.13)
AAO: ABSA

Overview

Dwelling details

Street: 46 Nagel Street
Suburb: JORDAN SPRINGS
State: NSW Postcode: 2747
Type: New Dwelling NCC Class: 1A
NatHERS climate zone: 28
Lot/DP number: 6147/1211125 Exposure: Suburban

Key construction and insulation materials

(see following pages for details)

Construction: Brick Veneer
Corrugated Iron
Waffle pod slab 225 mm
Insulation: R2.0 wall insulation
R3.0 ceiling insulation
No floor insulation
Glazing: ALM-002-01 A Aluminium B SG Clear

Net floor area (m²)

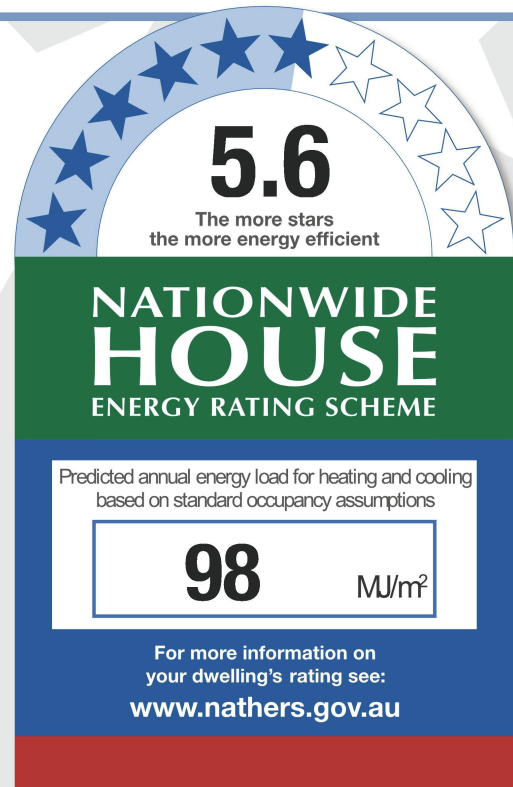
Conditioned: 176
Unconditioned: 47
Garage: 32
TOTAL: 223

Annual thermal performance loads (MJ/m²)

Heating: 67
Cooling: 31
TOTAL: 98

Plan documents

Plan ref/date: 603287/Rev 2
Prepared by: JCR



Ceiling penetrations

(see following pages for details)

Sealed: 1
Unsealed: 1
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If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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
ALM-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.70	0.57
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.70	0.70
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.40	0.56
TIM-002-01 W	TIM-002-01 W Timber B SG Clear	5.40	0.63

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Ensuite	ALM-001-01 A	n/a	2080	610	S	No Shading
Master Suite	ALM-002-01 A	n/a	2400	2700	S	No Shading
Study	ALM-001-01 A	n/a	2380	1570	N	No Shading
Kitchen/Live/Di	TIM-001-01 W	n/a	2340	920	N	No Shading
Kitchen/Live/Di	TIM-002-01 W	n/a	2340	290	N	No Shading
Kitchen/Live/Di	ALM-002-01 A	n/a	2400	2700	S	No Shading
Kitchen/Live/Di	ALM-002-01 A	n/a	2400	3600	S	No Shading
Home Theatre	ALM-002-01 A	n/a	2380	710	W	No Shading
Home Theatre	ALM-001-01 A	n/a	2380	1320	N	No Shading
Home Theatre	ALM-002-01 A	n/a	2380	1310	N	No Shading
Bed 2	ALM-001-01 A	n/a	2380	1570	N	No Shading
Bed 3	ALM-001-01 A	n/a	2380	1570	N	No Shading
Laundry	TIM-001-01 W	n/a	2040	820	E	No Shading
WC1	ALM-001-01 A	n/a	2080	610	E	No Shading
Bath	ALM-002-01 A	n/a	1500	1600	S	No Shading
Bed 4	ALM-002-01 A	n/a	600	2200	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	No
EW-2	Brick Veneer	No insulation	No
EW-3	Single Skin Brick	No insulation	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Ensuite	EW-1	4295	2700	W	No	600
Ensuite	EW-1	1795	2700	S	No	5450

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WIR	EW-1	2090	2700	S	No	5450
Master Suite	EW-1	4045	2700	S	No	4050
Master Suite	EW-1	1400	2700	W	No	4500
Study	EW-1	2340	2700	N	No	600
Kitchen/Live/Di	EW-1	1695	2700	N	No	3600
Kitchen/Live/Di	EW-1	8240	2700	S	No	4050
Home Theatre	EW-1	2000	2700	W	No	2400
Home Theatre	EW-1	3950	2700	N	No	1600
Home Theatre	EW-1	2000	2700	E	No	600
Bed 2	EW-1	2840	2700	N	No	600
Bed 3	EW-1	2795	2700	N	No	600
Bed 3	EW-1	3845	2700	E	No	600
Laundry	EW-1	450	2700	N	No	4450
Laundry	EW-1	3145	2700	E	No	600
WC1	EW-1	1845	2700	E	No	1150
WC1	EW-1	945	2700	N	No	550
Bath	EW-1	3695	2700	E	No	600
Bath	EW-1	1950	2700	S	No	575
Bath	EW-1	800	2700	W	No	19850
Bed 4	EW-1	3045	2700	S	No	600
Bed 4	EW-1	2250	2700	W	No	16800
Hall	EW-1	1145	2700	E	No	600
Hall	EW-1	995	2700	N	No	4800
Garage	EW-2	450	2700	S	No	9750
Garage	EW-2	5850	2700	W	No	575
Garage	EW-3	5600	2700	N	No	600
Garage	EW-2	900	2700	E	No	14250

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	80	Bulk Insulation, No Air Gap R1.7	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	144	No insulation	No

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Ensuite	Waffle pod slab 225 mm	7.8	None	Waffle Pod 225mm	Ceramic Tiles 8mm
WIR	Waffle pod slab 225 mm	8.2	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Master Suite	Waffle pod slab 225 mm	22.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Study	Waffle pod slab 225 mm	9.4	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Kitchen/Live/Di	Waffle pod slab 225 mm	62.3	None		

* 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

				Waffle Pod 225mm	Ceramic Tiles 8mm
Study Hall	Waffle pod slab 225 mm	2.7	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Home Theatre	Waffle pod slab 225 mm	15.4	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bed 2	Waffle pod slab 225 mm	10.5	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bed 3	Waffle pod slab 225 mm	10.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Laundry	Waffle pod slab 225 mm	5.8	None	Waffle Pod 225mm	Ceramic Tiles 8mm
WC1	Waffle pod slab 225 mm	1.6	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bath	Waffle pod slab 225 mm	7.0	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bed 4	Waffle pod slab 225 mm	10.9	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Hall	Waffle pod slab 225 mm	14.4	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Garage	Waffle pod slab 225 mm	32.3	None	Waffle Pod 225mm	Bare
Pantry	Waffle pod slab 225 mm	1.8	None	Waffle Pod 225mm	Ceramic Tiles 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Ensuite	Plasterboard	Bulk Insulation R3	Yes
WIR	Plasterboard	Bulk Insulation R3	Yes
Master Suite	Plasterboard	Bulk Insulation R3	Yes
Study	Plasterboard	Bulk Insulation R3	Yes
Kitchen/Live/Di	Plasterboard	Bulk Insulation R3	Yes
Study Hall	Plasterboard	Bulk Insulation R3	Yes
Home Theatre	Plasterboard	Bulk Insulation R3	Yes
Bed 2	Plasterboard	Bulk Insulation R3	Yes
Bed 3	Plasterboard	Bulk Insulation R3	Yes
Laundry	Plasterboard	Bulk Insulation R3	Yes
WC1	Plasterboard	Bulk Insulation R3	Yes
Bath	Plasterboard	Bulk Insulation R3	Yes
Bed 4	Plasterboard	Bulk Insulation R3	Yes

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Building features continued

Hall	Plasterboard	Bulk Insulation R3	Yes
Garage	Plasterboard	No insulation	Yes
Pantry	Plasterboard	Bulk Insulation R3	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ensuite	1	Exhaust Fans	200	Sealed
Kitchen/Live/Di	1	Exhaust Fans	150	Unsealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

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