

Nationwide House Energy Rating Scheme* Certificate



Certificate number: 0003173879-04

Certificate Date: 17 Jun 2019

★ Star rating: 4.9

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: **100765**
Name: **Jamie Bonnefin**
Organisation: **Certified Energy**
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Phone: **1300 443 674**
Declaration of interest: **None**
Software: **BERS Pro v4.3.0.2d (3.13)**
AAO: **ABSA**

Overview

Dwelling details

Street: **14 Playfair Road**
Suburb: **North Curl Curl**
State: **NSW** Postcode: **2099**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **29/17125** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Weatherboard Cavity Panel Direct Fix Corrugated Iron Suspended Timber Floor**
Insulation: **R2.0 wall insulation R4.0 ceiling insulation R2.0 floor insulation**
Glazing: **ALM-002-03 A Aluminium B SG High Solar Gain Low-E**

Net floor area (m²)

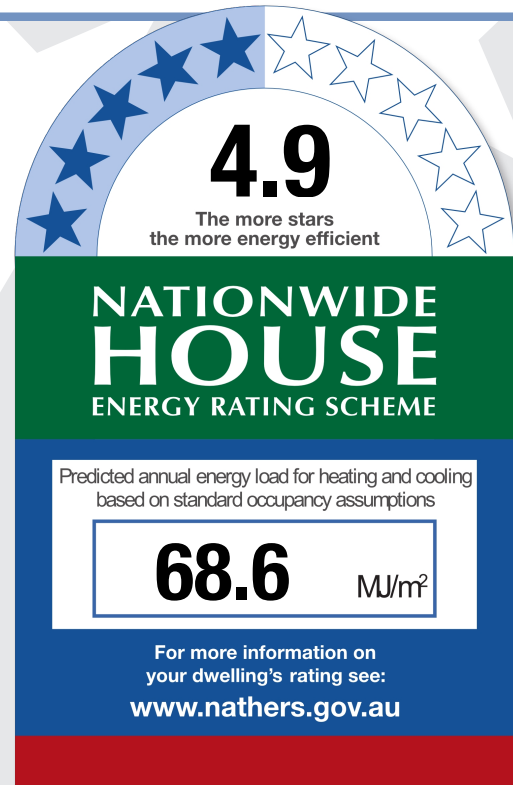
Conditioned: **185.0**
Unconditioned: **59.0**
Garage: **34.0**
TOTAL: **244.0**

Annual thermal performance loads (MJ/m²)

Heating: **46.3**
Cooling: **22.3**
TOTAL: **68.6**

Plan documents

Plan ref/date: **14 Playfair Road North Curl Curl**
Prepared by: **Classic Building Design**



Ceiling penetrations

(see following pages for details)

Sealed: **50**
Unsealed: **0**
TOTAL:** **50**

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

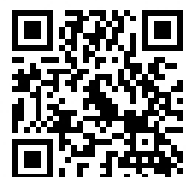
Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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
ALM-001-03 A	ALM-001-03 A Aluminium A SG High Solar Gain Low-E	5.4	0.49

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Garage	ALM-002-03 A	n/a	600	1800	N	No Shading
Entry	ALM-002-03 A	n/a	2400	480	E	No Shading
Guest	ALM-002-03 A	n/a	1500	2100	E	No Shading
Guest	ALM-002-03 A	n/a	600	1400	S	No Shading
PWDR	ALM-002-03 A	n/a	1000	600	S	No Shading
Study	ALM-002-03 A	n/a	1000	1500	S	No Shading
Kitchen/Living	ALM-002-03 A	n/a	600	1200	S	No Shading
Kitchen/Living	ALM-002-03 A	n/a	600	1200	S	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2100	2800	W	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2100	2800	W	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1000	1500	N	Awning
Kitchen/Living	ALM-002-03 A	n/a	1000	1500	N	Awning
Kitchen/Living	ALM-002-03 A	n/a	1200	2800	W	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1000	500	W	No Shading
Bedroom 1	ALM-002-03 A	n/a	600	1800	N	No Shading
Bedroom 1	ALM-001-03 A	n/a	2100	600	E	No Shading
Bedroom 1	ALM-001-03 A	n/a	2100	600	E	No Shading
Bedroom 1	ALM-002-03 A	n/a	2100	1640	E	No Shading
Ensuite	ALM-001-03 A	n/a	1000	600	N	No Shading
Bathroom	ALM-002-03 A	n/a	800	1500	N	No Shading
Stairs	ALM-002-03 A	n/a	1000	1500	N	No Shading
Bedroom 4	ALM-002-03 A	n/a	600	1200	W	No Shading
Bedroom 4	ALM-002-03 A	n/a	1200	2100	N	No Shading
Bedroom 2	ALM-002-03 A	n/a	1200	450	N	No Shading
Bedroom 2	ALM-002-03 A	n/a	1200	2100	E	No Shading
Bedroom 2	ALM-002-03 A	n/a	1200	450	S	No Shading
Bedroom 2	ALM-002-03 A	n/a	600	1800	S	No Shading
Bedroom 3	ALM-002-03 A	n/a	600	1800	S	No Shading
Bedroom 3	ALM-002-03 A	n/a	600	1200	W	No Shading
Laundry	ALM-001-03 A	n/a	1100	600	N	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						

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External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Weatherboard Cavity Panel Direct Fix	Bulk Insulation R2	No
EW-2	Fibro Cavity Panel on Battens	Bulk Insulation R2	No
EW-3	Single Skin Panel	Bulk Insulation R2	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Garage	EW-1	5800	2630	N	No	100
Garage	EW-1	5950	2630	E	No	0
Garage	EW-1	3050	2630	S	No	5000
Garage	EW-1	400	2630	W	No	0
Entry	EW-1	300	2450	W	No	5250
Entry	EW-1	2145	2450	N	No	0
Entry	EW-1	1540	2450	E	No	3550
Guest	EW-1	1350	2450	N	No	7600
Guest	EW-1	3300	2450	E	No	2200
Guest	EW-1	4100	2450	S	No	150
Guest	EW-1	850	2450	W	No	4400
PWDR	EW-1	1940	2450	S	No	0
Study	EW-1	2445	2450	S	No	0
Kitchen/Living	EW-1	6300	2450	S	No	600
Kitchen/Living	EW-1	4100	2450	W	No	2600
Kitchen/Living	EW-1	1050	2450	N	No	4700
Kitchen/Living	EW-1	4100	2450	W	No	3650
Kitchen/Living	EW-1	5245	2450	N	No	0
Bedroom 1	EW-1	3745	2400	N	No	600
Bedroom 1	EW-1	5550	2400	E	No	1000
Bedroom 1	EW-1	1750	2400	S	No	600
Bedroom 1	EW-1	745	2400	E	No	2350
Ensuite	EW-1	2040	2400	N	No	600
Bathroom	EW-1	2245	2400	N	No	600
Bathroom	EW-1	1050	2400	W	No	2750
Stairs	EW-1	2145	2400	N	No	600
Stairs	EW-1	300	2400	W	No	5850
Bedroom 4	EW-2	1550	700	S	No	1750
Bedroom 4	EW-3	3695	1700	S	No	0
Bedroom 4	EW-1	3695	700	S	No	600
Bedroom 4	EW-1	4100	2400	W	No	600
Bedroom 4	EW-1	5245	2400	N	No	600
Bedroom 2	EW-1	795	2400	E	No	600
Bedroom 2	EW-1	650	2400	N	No	7700
Bedroom 2	EW-1	2100	2400	E	No	300
Bedroom 2	EW-1	600	2400	S	No	950
Bedroom 2	EW-1	350	2400	E	No	900
Bedroom 2	EW-1	4145	2400	S	No	600
Bedroom 3	EW-1	4345	2400	S	No	600

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Bedroom 3	EW-3	4095	1700	W	No	0
Bedroom 3	EW-1	4095	700	W	No	600
Hallway	EW-3	1545	1700	S	No	0
Hallway	EW-1	1545	700	S	No	600
Laundry	EW-1	2245	2450	N	No	0
Laundry	EW-1	1050	2450	W	No	0

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	182.0	No insulation	No

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Garage	Concrete Slab on Ground 100mm	34.0	None	No Insulation	Bare
Entry	Suspended Timber Floor 19mm	21.5	Very Open	Bulk Insulation in Contact with Floor R2	Cork Tiles or Parquetry 8mm
Guest	Suspended Timber Floor 19mm	13.3	Very Open	Bulk Insulation in Contact with Floor R2	Carpet 10mm
PWDR	Suspended Timber Floor 19mm	4.5	Very Open	Bulk Insulation in Contact with Floor R2	Ceramic Tiles 8mm
Study	Suspended Timber Floor 19mm	9.2	Very Open	Bulk Insulation in Contact with Floor R2	Cork Tiles or Parquetry 8mm
Kitchen/Living	Suspended Timber Floor 19mm	47.0	Very Open	Bulk Insulation in Contact with Floor R2	Cork Tiles or Parquetry 8mm
Bedroom 1/Garage	Timber Above Plasterboard 19mm	20.5		No Insulation	Carpet 10mm
Bedroom 1/Entry	Timber Above Plasterboard 19mm	0.7		No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 19mm	1.0	Totally Open	Bulk Insulation in Contact with Floor R2	Carpet 10mm
Ensuite/Garage	Timber Above Plasterboard 19mm	4.8		No Insulation	Ceramic Tiles 8mm
WIR/Garage	Timber Above Plasterboard 19mm	5.0		No Insulation	Carpet 10mm
Bathroom/Entry	Timber Above Plasterboard 19mm	1.3		No Insulation	Ceramic Tiles 8mm
Bathroom/Laundry	Timber Above Plasterboard 19mm	7.0		No Insulation	Ceramic Tiles 8mm
Stairs/Entry	Timber Above Plasterboard 19mm	5.3		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 4/Kitchen/Living	Timber Above Plasterboard 19mm	19.5		No Insulation	Carpet 10mm

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Bedroom 2/Entry	Timber Above Plasterboard 19mm	2.2		No Insulation	Carpet 10mm
Bedroom 2/Guest	Timber Above Plasterboard 19mm	9.8		No Insulation	Carpet 10mm
Bedroom 2	Suspended Timber Floor 19mm	2.3	Totally Open	Bulk Insulation in Contact with Floor R2	Carpet 10mm
Bedroom 3/Entry	Timber Above Plasterboard 19mm	2.1		No Insulation	Carpet 10mm
Bedroom 3/PWDR	Timber Above Plasterboard 19mm	4.6		No Insulation	Carpet 10mm
Bedroom 3/Study	Timber Above Plasterboard 19mm	9.4		No Insulation	Carpet 10mm
Hallway/Garage	Timber Above Plasterboard 19mm	0.5		No Insulation	Carpet 10mm
Hallway/Entry	Timber Above Plasterboard 19mm	9.8		No Insulation	Carpet 10mm
Hallway/Kitchen/Living	Timber Above Plasterboard 19mm	1.7		No Insulation	Carpet 10mm
Laundry	Suspended Timber Floor 19mm	7.0	Very Open	Bulk Insulation in Contact with Floor R2	Ceramic Tiles 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Garage	Timber	Bulk Insulation R4	No
Garage	Timber Above Plasterboard	No Insulation	No
Entry	Timber	Bulk Insulation R4	No
Entry	Timber Above Plasterboard	No Insulation	No
Guest	Timber	Bulk Insulation R4	No
Guest	Timber Above Plasterboard	No Insulation	No
PWDR	Timber	Bulk Insulation R4	No
PWDR	Timber Above Plasterboard	No Insulation	No
Study	Timber	Bulk Insulation R4	No
Study	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Timber	Bulk Insulation R4	No
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Timber	Bulk Insulation R4	No
Ensuite	Timber	Bulk Insulation R4	No
WIR	Timber	Bulk Insulation R4	No
Bathroom	Timber	Bulk Insulation R4	No
Stairs	Timber		No

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		Bulk Insulation R4	
Bedroom 4	Timber	Bulk Insulation R4	No
Bedroom 2	Timber	Bulk Insulation R4	No
Bedroom 3	Timber	Bulk Insulation R4	No
Hallway	Timber	Bulk Insulation R4	No
Laundry	Timber	Bulk Insulation R4	No
Laundry	Timber Above Plasterboard	No Insulation	No

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Entry	5	Downlights - LED	150	Sealed
Guest	3	Downlights - LED	150	Sealed
PWDR	1	Downlights - LED	150	Sealed
PWDR	1	Exhaust Fans	300	Sealed
Study	2	Downlights - LED	150	Sealed
Kitchen/Living	10	Downlights - LED	150	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Bedroom 1	5	Downlights - LED	150	Sealed
Ensuite	1	Downlights - LED	150	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
WIR	2	Downlights - LED	150	Sealed
Bathroom	2	Downlights - LED	150	Sealed
Bathroom	1	Exhaust Fans	300	Sealed
Bedroom 4	3	Downlights - LED	150	Sealed
Bedroom 2	3	Downlights - LED	150	Sealed
Bedroom 3	4	Downlights - LED	150	Sealed
Hallway	3	Downlights - LED	150	Sealed
Laundry	2	Downlights - LED	150	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	Foil, No Gap, Reflective Side Down, Anti-glare Up	Light

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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