

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0002949576-01**

Certificate Date: **19 Jul 2018**

★ Star rating: **5.4**

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**

Email: **jamie@certified.energy**

Phone: **1300 443 674**

Declaration
of interest: **None**

Software: **BERS Pro v4.3.0.2c (3.13)**

AAO: **ABSA**

Overview

Dwelling details

Street: **967 Barrenjoey Road**

Suburb: **Palm Beach**

State: **NSW**

Postcode: **2108**

Type: **New Dwelling**

NCC Class: **1A**

NatHERS

climate zone: **56**

Lot/DP

number: **46/13620**

Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Weatherboard Cavity Panel Direct Fix
Corrugated Iron**

Insulation: **Concrete Slab on Ground**

R2.0 wall insulation

R4.0 ceiling insulation

No floor insulation

Glazing: **ALM-002-04 A Aluminium B SG Low**

Solar Gain Low-E

Net floor area (m²)

Conditioned: **124.0**

Unconditioned: **13.0**

Garage: **0.0**

TOTAL: **137.0**

Annual thermal performance loads (MJ/m²)

Heating: **36.8**

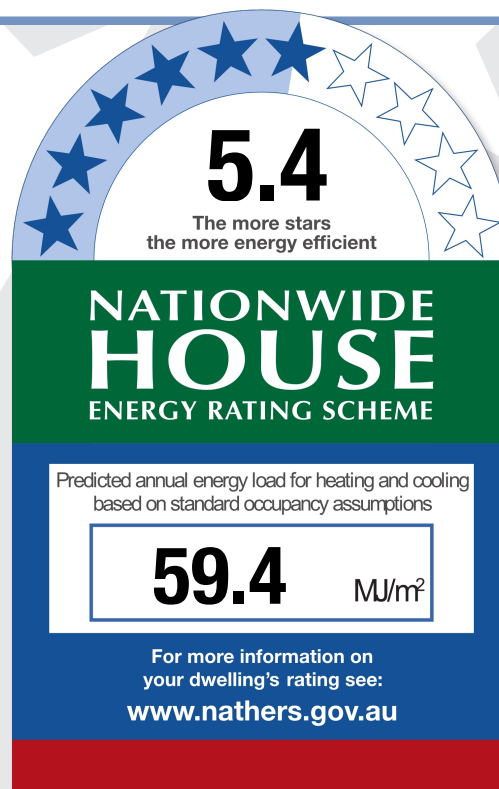
Cooling: **22.6**

TOTAL: **59.4**

Plan documents

Plan ref/date: **967 Barrenjoey Road, Palm Beach**

Prepared by: **Stephen Girdis**



Ceiling penetrations

(see following pages for details)

Sealed: **34**

Unsealed: **0**

TOTAL:** **34**

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-002-04 A	ALM-002-04 A Aluminium B SG Low Solar Gain Low-E	5.6	0.41
ALM-001-04 A	ALM-001-04 A Aluminium A SG Low Solar Gain Low-E	5.6	0.36

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Stairs FF	ALM-002-04 A	n/a	600	1000	N	No Shading
GF Living	ALM-001-04 A	n/a	2500	2700	W	No Shading
GF Living	ALM-001-04 A	n/a	2400	4478	N	No Shading
Kitchen/Living	ALM-001-04 A	n/a	2400	4478	N	No Shading
Entry	ALM-001-04 A	n/a	2150	2000	N	No Shading
Bath	ALM-002-04 A	n/a	600	2700	N	Vertical Louvres, Horizontal Blades
Bedroom 1	ALM-002-04 A	n/a	600	3200	N	Vertical Louvres, Horizontal Blades
Bedroom 2	ALM-002-04 A	n/a	1200	1200	W	No Shading
Bedroom 2	ALM-002-04 A	n/a	600	3200	N	Vertical Louvres, Horizontal Blades
Hallway	ALM-002-04 A	n/a	600	2500	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	Weatherboard Cavity Panel Direct Fix	Reflective foil with bulk no gap R2	Yes
EW-2	Concrete Block	No insulation	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Stairs FF	EW-1	1295	2400	N	No	1250
Stairs FF	EW-1	3800	2400	E	No	0
Stairs FF	EW-1	2045	2400	S	No	150
Stairs GF	EW-2	2590	600	E	No	0
Stairs GF	EW-1	2590	2470	E	No	100
GF Living	EW-1	4550	3070	W	No	1100
GF Living	EW-1	5145	3070	N	No	600
GF Living	EW-2	5145	950	S	No	0

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GF Living	EW-1	5145	2120	S	No	450
Kitchen/Living	EW-1	2000	3070	W	No	750
Kitchen/Living	EW-1	6345	3070	N	No	750
Kitchen/Living	EW-2	6340	950	S	No	0
Kitchen/Living	EW-1	6340	2120	S	No	450
Entry	EW-1	2395	3070	N	No	750
Entry	EW-2	1995	600	E	No	0
Entry	EW-1	1995	2470	E	No	100
Laundry/WC	EW-2	1945	600	E	No	0
Laundry/WC	EW-1	1945	2470	E	No	100
Laundry/WC	EW-2	2395	1900	S	No	0
Laundry/WC	EW-1	2395	1170	S	No	450
Bath	EW-1	2945	2400	N	No	500
Bath	EW-1	750	2400	E	No	1300
Bedroom 1	EW-1	5640	2400	N	No	500
Bedroom 2	EW-1	3595	2400	W	No	0
Bedroom 2	EW-1	3995	2400	N	No	500
Hallway	EW-1	3440	2400	S	No	150
Bedroom 2 35*	EW-1	8395	2400	S	No	150
Bedroom 2 35*	EW-1	945	2400	W	No	0

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	115.0	No insulation	No

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Stairs FF/Stairs GF	Timber Above Plasterboard 19mm	2.3		No Insulation	Cork Tiles or Parquetry 8mm
Stairs FF/Laundry/WC	Timber Above Plasterboard 19mm	3.4		No Insulation	Cork Tiles or Parquetry 8mm
Stairs GF	Concrete Slab on Ground 100mm	3.8	None	No Insulation	Cork Tiles or Parquetry 8mm
GF Living	Concrete Slab on Ground 100mm	23.2	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab on Ground 100mm	41.1	None	No Insulation	Ceramic Tiles 8mm
Entry	Concrete Slab on Ground 100mm	4.6	None	No Insulation	Ceramic Tiles 8mm
Laundry/WC	Concrete Slab on Ground 100mm	6.5	None	No Insulation	Ceramic Tiles 8mm
Bath/Stairs GF	Timber Above Plasterboard 19mm	0.7		No Insulation	Ceramic Tiles 8mm
Bath/Kitchen/Living	Timber Above Plasterboard 19mm	5.8		No Insulation	Ceramic Tiles 8mm
Bath/Laundry/WC	Timber Above Plasterboard	2.7		No Insulation	Ceramic Tiles

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Building features continued

	19mm			8mm
Bedroom 1/GF Living	Timber Above Plasterboard 19mm	2.8	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	15.7	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2/GF Living	Timber Above Plasterboard 19mm	15.3	No Insulation	Cork Tiles or Parquetry 8mm
Hallway/Kitchen/Living	Timber Above Plasterboard 19mm	3.3	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2 35*/GF Living	Timber Above Plasterboard 19mm	4.6	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2 35*/Kitchen/Living	Timber Above Plasterboard 19mm	2.9	No Insulation	Cork Tiles or Parquetry 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Stairs FF	Plasterboard	Bulk Insulation R4	No
Stairs GF	Plasterboard	Bulk Insulation R4	No
Stairs GF	Timber Above Plasterboard	No Insulation	No
GF Living	Plasterboard	Bulk Insulation R4	No
GF Living	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Plasterboard	Bulk Insulation R4	No
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Entry	Plasterboard	Bulk Insulation R4	No
Laundry/WC	Plasterboard	Bulk Insulation R4	No
Laundry/WC	Timber Above Plasterboard	No Insulation	No
Bath	Plasterboard	Bulk Insulation R4	No
Bedroom 1	Plasterboard	Bulk Insulation R4	No
Bedroom 2	Plasterboard	Bulk Insulation R4	No
Hallway	Plasterboard	Bulk Insulation R4	No
Bedroom 2 35*	Plasterboard	Bulk Insulation R4	No

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Stairs FF	1	Downlights - LED	150	Sealed
Stairs GF	1	Downlights - LED	150	Sealed
GF Living	5	Downlights - LED	150	Sealed
Kitchen/Living	9	Downlights - LED	150	Sealed

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Kitchen/Living	1	Exhaust Fans	300	Sealed
Entry	1	Downlights - LED	150	Sealed
Laundry/WC	2	Downlights - LED	150	Sealed
Laundry/WC	1	Exhaust Fans	300	Sealed
Bath	2	Downlights - LED	150	Sealed
Bath	1	Exhaust Fans	300	Sealed
Bedroom 1	4	Downlights - LED	150	Sealed
Bedroom 2	3	Downlights - LED	150	Sealed
Hallway	1	Downlights - LED	150	Sealed
Bedroom 2 35*	2	Downlights - LED	150	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	Bulk, Reflective Side Down, Anti-glare Up R1.8	Medium
Corrugated Iron	Bulk, Reflective Side Down, Anti-glare Up R1.8	Medium

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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