

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004589420

Certificate Date: 12 Feb 2020

★ Star rating: 5.3



Assessor details

Accreditation number: **HERA10033**
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Declaration of interest: **None**
Software: **BERS Pro v4.4.0.0 (3.21)**
AAO: **HERA**

Overview

Dwelling details

Street: **Unit P.09, 32 Holden Street**
Suburb: **Gosford**
State: **NSW** Postcode: **2250**
Type: **New Dwelling** NCC Class: **2**
NatHERS climate zone: **15**
Lot/DP number: **100/1116897** Exposure: **Open**

Key construction and insulation materials

(see following pages for details)

Construction: **Metal Clad Cavity Panel Direct Fix Corrugated Iron Concrete Slab, Unit Below**
Insulation: **R2.5 wall insulation R3.5 ceiling insulation No floor insulation**
Glazing: **ALM-006-03 A Aluminium B DG Argon Fill High Solar Gain low-E -Clear**

Net floor area (m²)

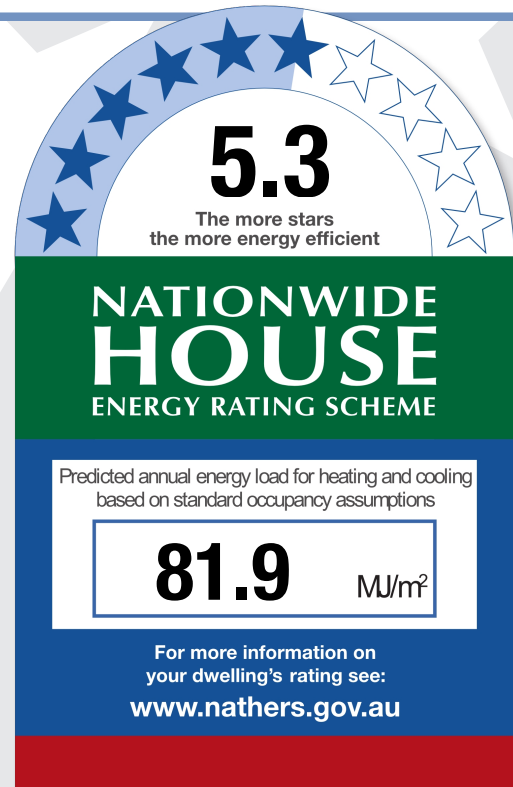
Conditioned: **142.0**
Unconditioned: **4.0**
Garage: **0.0**
TOTAL: **146.0**

Annual thermal performance loads (MJ/m²)

Heating: **61.0**
Cooling: **20.9**
TOTAL: **81.9**

Plan documents

Plan ref/date: **19-1063**
Prepared by: **White + Dickson Architects**



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If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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-006-03 A	ALM-006-03 A Aluminium B DG Argon Fill High Solar Gain low-E - Clear	4.1	0.52
ALM-004-01 A	ALM-004-01 A Aluminium B DG Air Fill Clear-Clear	4.8	0.59
ALM-005-03 A	ALM-005-03 A Aluminium A DG Argon Fill High Solar Gain low-E - Clear	4.1	0.47

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-006-03 A	n/a	2700	3200	SE	No Shading
Bedroom 2	ALM-006-03 A	n/a	1750	1400	SE	No Shading
Bedroom 2	ALM-004-01 A	n/a	1750	900	SE	No Shading
Bedroom 3	ALM-006-03 A	n/a	2700	2300	SW	No Shading
Kitchen/Living	ALM-006-03 A	n/a	2700	2400	N	No Shading
Kitchen/Living	ALM-006-03 A	n/a	2700	3800	E	No Shading
Kitchen/Living	ALM-006-03 A	n/a	2700	4000	E	No Shading
Kitchen/Living	ALM-006-03 A	n/a	2700	2500	S	No Shading
Kitchen/Living	ALM-006-03 A	n/a	2700	3100	S	No Shading
Ldry	ALM-005-03 A	n/a	2700	820	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 (m ²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Metal Clad Cavity Panel Direct Fix	Bulk Insulation R2.5	No
EW-2	AAC Cavity Panel Direct Fix	Bulk Insulation R2.5	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	5091	2700	NE	No	3076
Bedroom 1	EW-1	3531	2700	SE	No	4879
Bedroom 2	EW-1	3243	2700	SE	No	1626
Ens	EW-1	1970	2700	SE	No	4243
Bath	EW-1	300	2700	N	No	150
Bedroom 3	EW-1	3389	2700	SW	No	1697
Bedroom 1	EW-1	700	2700	W	No	0
Bedroom 1	EW-1	2295	2700	N	No	1450
Bedroom 1	EW-2	1200	2700	W	No	0

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Bedroom 1	EW-1	1100	2700	N	No	0
Corridor	EW-1	500	2700	N	No	250
Kitchen/Living	EW-1	6195	2700	N	No	5200
Kitchen/Living	EW-1	9300	2700	E	No	3100
Kitchen/Living	EW-1	6200	2700	S	No	5450
Ldry	EW-1	1590	2700	N	No	1300

Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - AAC, plaster on studs	78.0	No Insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	118.0	No insulation	No

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 150mm	21.0	None	No Insulation	Carpet 10mm
Bedroom 2	Concrete Slab, Unit Below 150mm	11.8	None	No Insulation	Carpet 10mm
Ens	Concrete Slab, Unit Below 150mm	6.3	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 150mm	5.6	None	No Insulation	Ceramic Tiles 8mm
Bedroom 3	Concrete Slab, Unit Below 150mm	11.1	None	No Insulation	Carpet 10mm
Bedroom 1	Concrete Slab, Unit Below 150mm	11.7	None	No Insulation	Ceramic Tiles 8mm
Corridor	Concrete Slab, Unit Below 150mm	15.0	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 150mm	59.3	None	No Insulation	Ceramic Tiles 8mm
Ldry	Concrete Slab, Unit Below 150mm	4.2	None	No Insulation	Ceramic Tiles 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 2	Plasterboard	Bulk Insulation R3.5	Yes
Ens	Plasterboard	Bulk Insulation R3.5	Yes
Bath	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 3	Plasterboard	Bulk Insulation	Yes

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Building features continued

Bedroom 1	Plasterboard	R3.5	
		Bulk Insulation	Yes
		R3.5	
Corridor	Plasterboard	Bulk Insulation	Yes
		R3.5	
Kitchen/Living	Plasterboard	Bulk Insulation	Yes
		R3.5	
Ldry	Plasterboard	Bulk Insulation	Yes
		R3.5	

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ldry	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.3	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