

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0003856697-01

Certificate Date: 03 May 2020

★ Star rating: 5.4



Assessor details

Accreditation

number: **HERA10042**

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Declaration of interest: **No potential conflicts of interest to declare**

Software: **AccuRate Sustainability V2.3.3.13 SP4**

AAO: **HERA**

Overview

Dwelling details

Street: **Unit 4.06, 5 Preston Avenue**

Suburb: **Engadine**

State: **NSW**

Postcode: **2233**

Type: **New**

NCC Class: **2**

NatHERS

climate zone: **56**

Lot/DP

number: **Lot 6 DP 232490**

Exposure: **Open**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick wall/Plasterboard
Roof - N/A**

Insulation: **Slab/Plasterboard
R2.0 wall insulation
Ceiling (uninsulated)**

Glazing: **Floor (uninsulated)
Aluminium B SG Clear**

Net floor area (m²)

Conditioned: **67.9**

Unconditioned: **0.0**

Garage:

TOTAL: **67.9**

Annual thermal performance loads (MJ/m²)

Heating: **34.4**

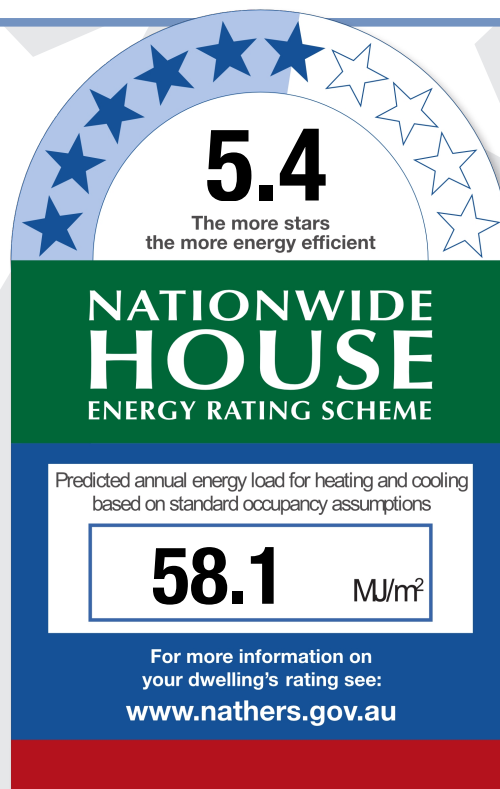
Cooling: **23.6**

TOTAL: **58.1**

Plan documents

Plan ref/date: **1805 DA Rev.D / 27 APR 2020**

Prepared by: **MC**



Ceiling penetrations

(see following pages for details)

Sealed: **0**

Unsealed: **0**

TOTAL:** **0**

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: **No Ceiling Penetration Downlights**

Window selection - default windows only

Note on allowable window values: With a 10% tolerance to the nominated SHGC window values shown on page 2, the following ratings are achieved:

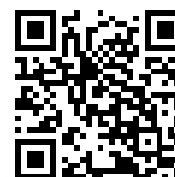
-10% SHGC **5.4**

+10% SHGC **5.5**

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 the rating listed above falls below 6.0 stars or the required rating, then the window with this tolerance can NOT be selected.

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	DEFAULTS: Aluminium B SG Clear	6.7	0.70

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
BED 1	ALM-002-01 A	W25	600	1480	SW	None
BED 1	ALM-002-01 A	W26	1500	1600	SE	None
KLD	ALM-002-01 A	W28	2400	5210	SE	None
BED 2	ALM-002-01 A	W27	1500	1600	SE	None

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-005	Plasterboard	Glass fibre batt: R2.0	No
EW-007	Fibre-cement sheet/Plasterboard	Polystyrene extruded (k = 0.028): R2.7	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
BATH	EW-005	1600	2800	SE	No	
BED 1	EW-005	5100	2800	SW	No	
BED 1	EW-005	3000	2800	SE	No	
KLD	EW-007	5210	2800	SE	Yes	2270
KLD	EW-005	475	2800	SW	No	
BED 2	EW-005	2850	2800	SE	No	

Internal wall type

ID	Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-001	Plasterboard	53.0		No
IW-002	Plasterboard/AAC block	51.1		No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
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Building features continued

BATH/Neighbour	Concrete Slab 200 mm: ceramic tiles/airgap/plasterboard	5.8	Ceramic tile
BED 1/Neighbour	Concrete Slab 200 mm: carpet/airgap/plasterboard	15.3	Carpet 10 + felt underlay 10
ENTRY - CORRIDOR/Neighbour	Concrete Slab 200 mm: carpet/airgap/plasterboard	7.5	Carpet 10 + felt underlay 10
KLD/Neighbour	Concrete Slab 200 mm: carpet/airgap/plasterboard	22.0	Carpet 10 + felt underlay 10
KLD/Neighbour	Concrete Slab 200 mm: ceramic tiles/airgap/plasterboard	7.0	Ceramic tile
BED 2/Neighbour	Concrete Slab 200 mm: carpet/airgap/plasterboard	10.3	Carpet 10 + felt underlay 10

Ceiling type

Location	Construction	Added insulation	Roof space above
Neighbour/BATH	Concrete Slab 200 mm: ceramic tiles/airgap/plasterboard		No
Neighbour/BED 1	Concrete Slab 200 mm: carpet/airgap/plasterboard		No
Neighbour/ENTRY - CORRIDOR	Concrete Slab 200 mm: carpet/airgap/plasterboard		No
Neighbour/KLD	Concrete Slab 200 mm: carpet/airgap/plasterboard		No
Neighbour/KLD	Concrete Slab 200 mm: ceramic tiles/airgap/plasterboard		No
Neighbour/BED 2	Concrete Slab 200 mm: carpet/airgap/plasterboard		No

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
BATH	1	Downlight		Sealed
BATH	1	Ceiling exhaust fan	160	Sealed
BED 1	6	Downlight		Sealed
ENTRY - CORRIDOR	1	Downlight		Sealed
KLD	12	Downlight		Sealed
KLD	1	Ceiling exhaust fan	160	Sealed
BED 2	4	Downlight		Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
None Present		

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Additional information

Default ceiling penetration density calculated as lighting plan has not been provided.

All openable windows other than located on ground floor or are louvre type (if applicable) are assumed to be fully openable as safety devices (STEEL MESH) are in place.

If these are not in place then this NatHERS must be revised.

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