

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0004546651**

Certificate Date: **29 Jan 2020**

★ Star rating: **5.1**

Assessor details

Accreditation number: **20390**
Name: **Fadi Sweis**
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Declaration of interest: **None**
Software: **BERS Pro v4.4.0.0 (3.21)**
AAO: **ABSA**

Overview

Dwelling details

Street: **12 Goldsmith Avenue**
Suburb: **Killarney Heights**
State: **NSW** Postcode: **2087**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **412/216441** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**
Roof Tiles
Waffle pod slab 300 mm
Insulation: **R2.0 wall insulation**
R4.1 ceiling insulation
No floor insulation
Glazing: **ALM-002-01 A Aluminium B SG Clear**

Net floor area (m²)

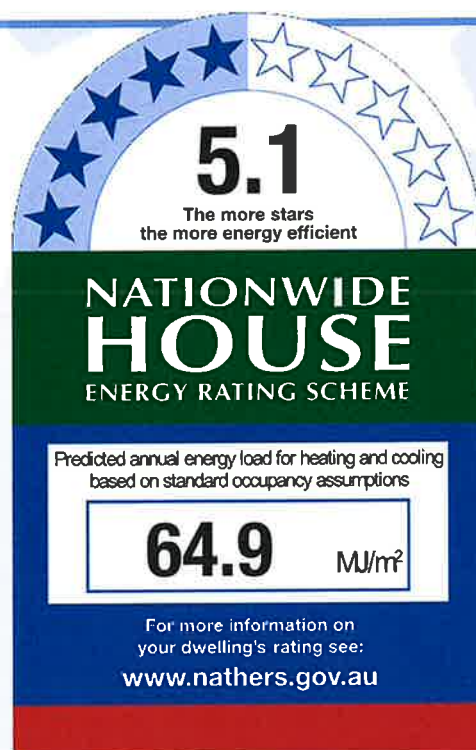
Conditioned: **271.0**
Unconditioned: **58.0**
Garage: **40.0**
TOTAL: **329.0**

Annual thermal performance loads (MJ/m²)

Heating: **39.0**
Cooling: **25.9**
TOTAL: **64.9**

Plan documents

Plan ref/date: **704765**
Prepared by: **JF9**



Ceiling penetrations

(see following pages for details)

Sealed: **32**
Unsealed: **0**
TOTAL:** **32**

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 daylight 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If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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
AL-001-05 A	AL-001-05 A Al Awning SG 4EA	4.3	0.55
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70
AL-025-05 A	AL-025-05 A Al Boutique Fixed Lite Window SG 4EA	3.8	0.64
AL-012-05 A	AL-012-05 A Al Sliding Door SG 4EA	4.3	0.61
ALM-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.7	0.57

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Living	AL-001-05 A	n/a	1800	2400	W	No Shading
Garage 1	ALM-002-01 A	n/a	500	2700	E	No Shading
Powder	ALM-002-01 A	n/a	1000	900	N	No Shading
Laundry	ALM-002-01 A	n/a	2370	1450	N	No Shading
Pantry	ALM-002-01 A	n/a	700	1500	N	No Shading
Entry	ALM-002-01 A	n/a	2455	455	W	No Shading
Entry	ALM-002-01 A	n/a	2455	455	W	No Shading
Kitchen/Living	ALM-002-01 A	n/a	700	2700	N	No Shading
Kitchen/Living	AL-025-05 A	n/a	2400	4800	E	No Shading
Kitchen/Living	AL-012-05 A	n/a	2370	3213	S	No Shading
Kitchen/Living	AL-012-05 A	n/a	2370	3213	E	No Shading
Kitchen/Living	AL-012-05 A	n/a	2370	3213	S	No Shading
Study	AL-012-05 A	n/a	2370	2673	S	No Shading
Bedroom 1	ALM-001-01 A	n/a	1800	600	W	No Shading
Bedroom 1	ALM-001-01 A	n/a	1800	600	W	No Shading
Bedroom 1	ALM-001-01 A	n/a	2085	2410	W	No Shading
WIR	ALM-001-01 A	n/a	1800	600	W	No Shading
WIR	ALM-001-01 A	n/a	1800	600	W	No Shading
ENS	ALM-002-01 A	n/a	1200	1800	N	No Shading
Bedroom 2	ALM-002-01 A	n/a	1200	1800	N	No Shading
Bedroom 3	ALM-002-01 A	n/a	1200	1800	N	No Shading
Bedroom 3	ALM-002-01 A	n/a	1200	2200	E	No Shading
Bath	ALM-002-01 A	n/a	300	1500	E	No Shading
Bedroom 4	ALM-002-01 A	n/a	1000	2100	E	No Shading
Bedroom 4	ALM-002-01 A	n/a	1000	2100	S	No Shading
Leisure	AL-001-05 A	n/a	1500	600	S	No Shading
Leisure	AL-001-05 A	n/a	1500	600	S	No Shading
Leisure	AL-001-05 A	n/a	1500	600	S	No Shading
Leisure	AL-001-05 A	n/a	1500	600	W	No Shading
Leisure	AL-001-05 A	n/a	1500	600	W	No Shading
Sitting	AL-001-05 A	n/a	1800	600	W	No Shading
Sitting	AL-001-05 A	n/a	1800	600	W	No Shading

Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

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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	Brick Veneer	Foil Anti-glare one side and Reflective other of the Bulk Insulation R2	Yes
EW-2	Brick Veneer	No insulation	No
EW-3	Cavity Brick	No insulation	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Living	EW-1	3950	2700	W	No	1800
Living	EW-1	4445	2700	N	No	50
Living	EW-1	950	2700	S	No	12100
Garage 1	EW-2	6400	2775	S	No	700
Garage 1	EW-3	5595	2775	W	No	600
Garage 1	EW-2	5600	2775	E	No	650
Powder	EW-1	2190	2700	N	No	50
Laundry	EW-1	1990	2700	N	No	50
Pantry	EW-1	2640	2700	N	No	50
Entry	EW-1	3040	2700	W	No	2750
Kitchen/Living	EW-1	4445	2700	N	No	50
Kitchen/Living	EW-1	600	2700	E	No	100
Kitchen/Living	EW-1	5050	2700	N	No	50
Kitchen/Living	EW-1	5350	2700	E	No	100
Kitchen/Living	EW-1	5050	2700	S	No	5800
Kitchen/Living	EW-1	3800	2700	E	No	5150
Kitchen/Living	EW-1	5095	2700	S	No	100
Study	EW-1	3440	2700	S	No	100
Bedroom 1	EW-1	4795	2550	W	No	650
Bedroom 1	EW-1	6895	2550	S	No	800
WIR	EW-1	2145	2550	W	No	650
WIR	EW-1	4745	2550	N	No	850
ENS	EW-1	2240	2550	N	No	850
Bedroom 2	EW-1	4340	2550	N	No	850
Bedroom 3	EW-1	4395	2550	N	No	850
Bedroom 3	EW-1	3245	2550	E	No	800
Bath	EW-1	3190	2550	E	No	800
Bedroom 4	EW-1	3295	2550	E	No	800
Bedroom 4	EW-1	4345	2550	S	No	850
Leisure	EW-1	4145	2550	S	No	850
Leisure	EW-1	2800	2550	W	No	850
Leisure	EW-1	345	2550	S	No	3650

* 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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Sitting	EW-1	2745	2700	W	No	600
Sitting	EW-1	200	2700	N	No	7050

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	214.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	36.0	Bulk Insulation, No Air Gap R2	No
IW-3 - Brick Veneer	7.0	No insulation	No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Living	Waffle pod slab 300 mm 100mm	17.2	None	Waffle Pod 300mm	Carpet 10mm
Garage 1	Waffle pod slab 225 mm 100mm	40.2	None	Waffle Pod 225mm	Bare
Powder	Waffle pod slab 300 mm 100mm	4.5	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Laundry	Waffle pod slab 300 mm 100mm	5.8	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Pantry	Waffle pod slab 300 mm 100mm	7.1	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Entry	Waffle pod slab 300 mm 100mm	32.5	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Kitchen/Living	Waffle pod slab 300 mm 100mm	75.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Study	Waffle pod slab 300 mm 19mm	12.1	None	Waffle Pod 300mm	Carpet 10mm
Bedroom 1/Living	Timber Above Plasterboard 19mm	7.8		No Insulation	Carpet 10mm
Bedroom 1/Entry	Timber Above Plasterboard 19mm	15.4		No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 19mm	2.8	Totally Open	No Insulation	Carpet 10mm
WIR/Living	Timber Above Plasterboard 19mm	9.3		No Insulation	Carpet 10mm
WIR/Powder	Timber Above Plasterboard 19mm	0.6		No Insulation	Carpet 10mm
ENS/Powder	Timber Above Plasterboard 19mm	3.8		No Insulation	Ceramic Tiles 8mm
ENS/Laundry	Timber Above Plasterboard 19mm	1.0		No Insulation	Ceramic Tiles 8mm
ENS/Entry	Timber Above Plasterboard 19mm	6.4		No Insulation	Ceramic Tiles 8mm
Bedroom 2/Laundry	Timber Above Plasterboard 19mm	4.9		No Insulation	Carpet 10mm
Bedroom 2/Pantry	Timber Above Plasterboard 19mm	7.0		No Insulation	Carpet 10mm
Bedroom	Timber Above Plasterboard	13.0		No Insulation	Carpet 10mm

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3/Kitchen/Living	19mm				
Bath/Kitchen/Living	Timber Above Plasterboard 19mm	7.6	No Insulation	Ceramic Tiles 8mm	
Bedroom 4/Kitchen/Living	Timber Above Plasterboard 19mm	14.0	No Insulation	Carpet 10mm	
Leisure/Entry	Timber Above Plasterboard 19mm	10.6	No Insulation	Carpet 10mm	
Leisure/Kitchen/Living	Timber Above Plasterboard 19mm	10.3	No Insulation	Carpet 10mm	
Leisure/Study	Timber Above Plasterboard 19mm	12.1	No Insulation	Carpet 10mm	
WC/Kitchen/Living	Timber Above Plasterboard 19mm	1.6	No Insulation	Ceramic Tiles 8mm	
Sitting	Waffle pod slab 300 mm 100mm	12.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Living	Timber Above Plasterboard	No Insulation	No
Garage 1	Plasterboard	No insulation	Yes
Powder	Timber Above Plasterboard	No Insulation	No
Laundry	Timber Above Plasterboard	No Insulation	No
Pantry	Timber Above Plasterboard	No Insulation	No
Entry	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Plasterboard	Bulk Insulation R4.1	Yes
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Study	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R4.1	Yes
WIR	Plasterboard	Bulk Insulation R4.1	Yes
ENS	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 3	Plasterboard	Bulk Insulation R4.1	Yes
Bath	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 4	Plasterboard	Bulk Insulation R4.1	Yes
Leisure	Plasterboard	Bulk Insulation R4.1	Yes
WC	Plasterboard	Bulk Insulation R4.1	Yes
Sitting	Plasterboard	Bulk Insulation R4.1	Yes

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Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	30	Downlights - LED	150	Sealed
ENS	1	Exhaust Fans	300	Sealed
WC	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Dark
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	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