

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0003677275**

Certificate Date: **08 Mar 2019**

★ Star rating: **5.1**

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: **20390**
Name: **Fadi Sweis**
Organisation: **Energy Ratings Australia Pty Ltd**
Email: **fsweis@eraservices.com.au**
Phone: **1800 372 669**
Declaration of interest: **None**
Software: **BERS Pro v4.3.0.2d (3.13)**
AAO: **ABSA**

Overview

Dwelling details

Street: **Ivy Drive**
Suburb: **Warriewood**
State: **NSW** Postcode: **2102**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **12/-** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**
Roof Tiles
Suspended Timber Floor
Insulation: **R2.5 wall insulation**
R4.1 ceiling insulation
No floor insulation
Glazing: **ALM-002-01 A Aluminium B SG Clear**

Net floor area (m²)

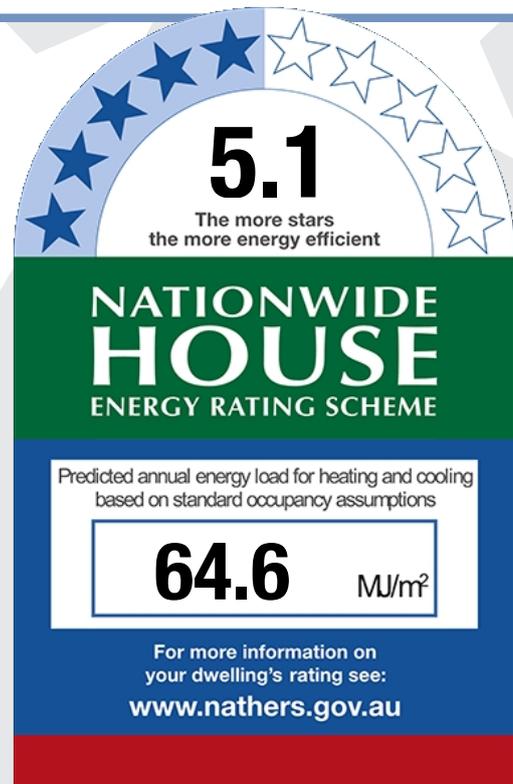
Conditioned: **187.0**
Unconditioned: **24.0**
Garage: **20.0**
TOTAL: **211.0**

Annual thermal performance loads (MJ/m²)

Heating: **38.6**
Cooling: **26.0**
TOTAL: **64.6**

Plan documents

Plan ref/date: **A008849**
Prepared by: **NH**



Ceiling penetrations

(see following pages for details)

Sealed: **3**
Unsealed: **0**
TOTAL:** **3**

***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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5.1



Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
AIR-020-03 W	AIR-020-03 W Cedar Double Hung Window SG 5Clr	4.7	0.61
BRD-063-07 A	BRD-063-07 A SIG Fixed Lite (67mm) SG 4ET	4.1	0.66
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70
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
Lounge	AIR-020-03 W	n/a	1500	2400	NW	No Shading
Theatre	AIR-020-03 W	n/a	700	2400	NE	No Shading
Kitchen/Living	BRD-063-07 A	n/a	772	2200	NE	No Shading
Kitchen/Living	BRD-063-07 A	n/a	2200	800	NE	No Shading
Kitchen/Living	ALM-002-01 A	n/a	2300	5300	SE	No Shading
Kitchen/Living	BRD-063-07 A	n/a	2200	800	SW	No Shading
Kitchen/Living	BRD-063-07 A	n/a	2200	800	SW	No Shading
Ldry	ALM-001-01 A	n/a	2100	820	SE	No Shading
Bedroom 1	ALM-002-01 A	n/a	700	1400	NE	No Shading
Bedroom 1	ALM-001-01 A	n/a	1300	700	NW	No Shading
Bedroom 1	ALM-001-01 A	n/a	1300	700	NW	No Shading
Bedroom 1	ALM-001-01 A	n/a	1300	700	NW	No Shading
ENS	ALM-001-01 A	n/a	1300	700	NW	No Shading
Bath	ALM-002-01 A	n/a	1600	1200	SW	No Shading
Study/Media	ALM-002-01 A	n/a	700	1400	NE	No Shading
Study/Media	ALM-002-01 A	n/a	700	1400	SW	No Shading
Study/Media	ALM-002-01 A	n/a	700	1800	SW	No Shading
Bedroom 2	ALM-002-01 A	n/a	1200	1200	SE	No Shading
Bedroom 3	ALM-002-01 A	n/a	1200	1200	SE	No Shading
Bedroom 4	ALM-002-01 A	n/a	1200	1200	NE	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	Brick Veneer	Bulk Insulation R2.5	No
EW-2	Brick Veneer	No insulation	No
EW-3	Cavity Brick	No insulation	No
EW-4	Weatherboard Cavity Panel Direct Fix	Bulk Insulation R2.5	No

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0003677275**

Certificate Date:

08 Mar 2019

★ Star rating:

5.1



Building features continued

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Lounge	EW-1	3345	2600	NE	No	50
Lounge	EW-1	950	2600	SW	No	3450
Lounge	EW-1	3200	2600	NW	No	50
Theatre	EW-1	3940	2600	NE	No	50
Kitchen/Living	EW-1	8645	2600	NE	No	50
Kitchen/Living	EW-1	6500	2600	SE	No	3600
Kitchen/Living	EW-1	7250	2600	SW	No	50
Ldry	EW-1	1045	2600	SE	No	50
Ldry	EW-1	2195	2600	SW	No	50
Garage 1	EW-2	700	2930	SE	No	50
Garage 1	EW-2	5550	2930	SW	No	50
Garage 1	EW-3	3745	2930	NW	No	600
Entry/Hallway	EW-1	1290	2600	NW	No	1000
Bedroom 1	EW-4	800	2450	NE	No	650
Bedroom 1	EW-1	4695	2450	NE	No	650
Bedroom 1	EW-4	400	2450	SW	No	2700
Bedroom 1	EW-4	4400	2450	NW	No	650
ENS	EW-4	4945	2450	SW	No	600
ENS	EW-4	2095	2450	NW	No	600
Bath	EW-4	2740	2450	SW	No	600
WIR	EW-1	2640	2450	NE	No	650
Study/Media	EW-1	1890	2450	NE	No	650
Study/Media	EW-4	5390	2450	SW	No	600
Bedroom 2	EW-1	3545	2450	NE	No	650
Bedroom 2	EW-4	3345	2450	SE	No	600
Bedroom 3	EW-4	3145	2450	SE	No	600
Bedroom 3	EW-4	3595	2450	SW	No	600
Bedroom 4	EW-1	3490	2450	NE	No	650

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	164.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	22.0	Bulk Insulation, No Air Gap R2.5	No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Lounge	Waffle pod slab 300 mm 100mm	10.5	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Theatre	Waffle pod slab 300 mm 100mm	12.9	None	Waffle Pod	Ceramic Tiles

Nationwide House Energy Rating Scheme* Certificate

Certificate number: **0003677275**

Certificate Date:

08 Mar 2019

★ Star rating:

5.1



Building features continued

Location	Construction	U-value	Notes	Insulation	Finish
Kitchen/Living	Waffle pod slab 300 mm 100mm	50.3	None	300mm Waffle Pod	8mm Ceramic Tiles
PWDR	Waffle pod slab 300 mm 100mm	1.5	None	300mm Waffle Pod	8mm Ceramic Tiles
Ldry	Waffle pod slab 300 mm 100mm	3.7	None	300mm Waffle Pod	8mm Ceramic Tiles
Garage 1	Waffle pod slab 225 mm 100mm	20.4	None	225mm Waffle Pod	Bare
Entry/Hallway	Waffle pod slab 300 mm 100mm	10.1	None	300mm Waffle Pod	8mm Ceramic Tiles
Bedroom 1/Lounge	Timber Above Plasterboard	19mm	10.5	No Insulation	10mm Carpet
Bedroom 1/Theatre	Timber Above Plasterboard	19mm	7.2	No Insulation	10mm Carpet
Bedroom 1/Entry/Hallway	Timber Above Plasterboard	19mm	4.9	No Insulation	10mm Carpet
Bedroom 1	Suspended Timber Floor	19mm	1.1	Totally Open	10mm Carpet
ENS/Garage 1	Timber Above Plasterboard	19mm	8.3	No Insulation	8mm Ceramic Tiles
ENS	Suspended Timber Floor	19mm	1.1	Totally Open	8mm Ceramic Tiles
Bath/Ldry	Timber Above Plasterboard	19mm	1.6	No Insulation	8mm Ceramic Tiles
Bath/Garage 1	Timber Above Plasterboard	19mm	2.4	No Insulation	8mm Ceramic Tiles
Bath/Entry/Hallway	Timber Above Plasterboard	19mm	1.7	No Insulation	8mm Ceramic Tiles
WIR/Theatre	Timber Above Plasterboard	19mm	5.4	No Insulation	10mm Carpet
WIR/Kitchen/Living	Timber Above Plasterboard	19mm	2.5	No Insulation	10mm Carpet
Study/Media/Kitchen/Living	Timber Above Plasterboard	19mm	22.6	No Insulation	10mm Carpet
Study/Media/PWDR	Timber Above Plasterboard	19mm	1.7	No Insulation	10mm Carpet
Study/Media/Entry/Hallway	Timber Above Plasterboard	19mm	3.6	No Insulation	10mm Carpet
Bedroom 2/Kitchen/Living	Timber Above Plasterboard	19mm	7.1	No Insulation	10mm Carpet
Bedroom 2	Suspended Timber Floor	19mm	3.7	Totally Open	10mm Carpet
Bedroom 3/Kitchen/Living	Timber Above Plasterboard	19mm	6.7	No Insulation	10mm Carpet
Bedroom 3	Suspended Timber Floor	19mm	3.5	Totally Open	10mm Carpet
Bedroom 4/Kitchen/Living	Timber Above Plasterboard	19mm	10.0	No Insulation	10mm Carpet

Ceiling type

Location	Construction	Added insulation	Roof space above
Lounge	Timber Above Plasterboard	No Insulation	No
Theatre	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Timber Above Plasterboard	No Insulation	No

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5.1



Building features continued

PWDR	Timber Above Plasterboard	No Insulation	No
Ldry	Plasterboard	Bulk Insulation R4.1	Yes
Ldry	Timber Above Plasterboard	No Insulation	No
Garage 1	Plasterboard	No insulation	Yes
Garage 1	Timber Above Plasterboard	No Insulation	No
Entry/Hallway	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R4.1	Yes
ENS	Plasterboard	Bulk Insulation R4.1	Yes
Bath	Plasterboard	Bulk Insulation R4.1	Yes
WIR	Plasterboard	Bulk Insulation R4.1	Yes
Study/Media	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 3	Plasterboard	Bulk Insulation R4.1	Yes
Bedroom 4	Plasterboard	Bulk Insulation R4.1	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
PWDR	1	Exhaust Fans	300	Sealed
ENS	1	Exhaust Fans	300	Sealed
Bath	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	Medium
Corrugated Iron	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Medium
Roof Tiles	Foil, Gap Above, Reflective Side	Dark

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5.1



Building features continued

Down, Anti-glare
Up

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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