Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0003442589

Certificate Date: 10 Dec 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:	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

	Warriewood Road Warriewood		
State:	NSW	Postcode:	2102
Туре:	New Dwelling	NCC Class: NatHERS	1 A
Lot/DP		climate zone:	56
number:	4/-	Exposure:	Suburban

Key construction and insulation materials

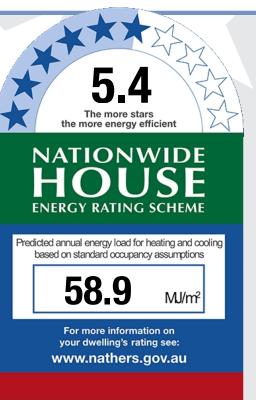
(see following pages for details)

Construction:	Brick Veneer
	Corrugated Iron
	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)	Annual the	
Conditioned: Unconditioned:	170.0 41.0	performanc (MJ/m ²)	e loads
Garage:	36.0	Heating:	34.8
TOTAL:	211.0	Cooling: TOTAL:	24.1 58.9

Plan documents

Plan ref/date: A008854 Prepared by: DD



Ceiling penetration (see following pages for det		maxii	mum number of ceiling trations allowed to a	
Unsealed:	2 0 2	certifient excention of this of and a Loss pene	**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded 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. nown Scan to access this certificate online and confirm this is valid.	
Principle downlight type:	Unk	nov	/n	
	y		certificate online and	
default windows onl Note on allowable window values: Only a 5% tolerance to the nomina SHGC window values shown on pa	ited		certificate online and	
Window selection - default windows onl Note on allowable window values: Only a 5% tolerance to the nomina SHGC window values shown on pa can be used with this rating. Note: Only a +/- 5% SHGC toleran allowed with this rating.	ited age 2		certificate online and	

values stated on page 2.

confirm compliance.

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

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Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
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
Kitchen/Living	ALM-002-01 A	n/a	1800	600	SE	No Shading
Kitchen/Living	ALM-002-01 A	n/a	1800	600	SE	No Shading
Kitchen/Living	ALM-002-01 A	n/a	2300	3200	SW	No Shading
Kitchen/Living	ALM-002-01 A	n/a	2300	2400	SE	No Shading
Kitchen/Living	ALM-002-01 A	n/a	1500	1800	SW	No Shading
Kitchen/Living	ALM-002-01 A	n/a	772	2410	NW	No Shading
Kitchen/Living	ALM-002-01 A	n/a	1800	600	NW	No Shading
Kitchen/Living	ALM-002-01 A	n/a	1800	600	NW	No Shading
Ldry	ALM-001-01 A	n/a	2100	820	NW	No Shading
Study	ALM-002-01 A	n/a	1500	1400	NW	No Shading
Lounge/Theatre	ALM-002-01 A	n/a	2100	1000	NE	No Shading
Bedroom 1	ALM-002-01 A	n/a	1000	2000	SW	No Shading
ENS	ALM-002-01 A	n/a	600	1200	SW	No Shading
Rumpus	ALM-002-01 A	n/a	600	2600	NW	No Shading
Rumpus	ALM-002-01 A	n/a	500	600	NE	No Shading
Rumpus	ALM-002-01 A	n/a	500	600	NE	No Shading
Rumpus	ALM-002-01 A	n/a	1200	600	SE	No Shading
Bath	ALM-002-01 A	n/a	1600	1200	SE	No Shading
Bedroom 2	ALM-002-01 A	n/a	1800	1000	NE	No Shading
Bedroom 3	ALM-001-01 A	n/a	1300	700	NE	No Shading
Bedroom 3	ALM-001-01 A	n/a	1300	700	NE	No Shading
Bedroom 4	ALM-002-01 A	n/a	600	1800	NW	No Shading

and skylight t	ype and performance	e value			
Window ty	pe			U-value	SHGC
/ and skylight s	schedule				
ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
-					-
	Window typ v and skylight s ID	Window type v and skylight schedule ID Roof window/skylight no.	v and skylight schedule ID Roof Area (m²) window/skylight no.	Window type v and skylight schedule ID Roof window/skylight no. Area (m²) Orientation	Window type U-value v and skylight schedule ID ID Roof window/skylight no.

External v	vall type		
ID	Wall type	Insulation	Wall wrap or foil
EW-1	Single Skin Brick	No insulation	No
EW-2	Brick Veneer	No insulation	No
EW-3	Cavity Brick	No insulation	No
EW-4	Brick Veneer	Bulk Insulation R2.5	No

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Building features continued

Fix

EW-5

Weatherboard Cavity Panel Direct Bulk Insulation R2.5

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Garage 1	EW-1	7900	2675	SE	No	50
Garage 1	EW-2	2545	2675	SW	No	100
Garage 1	EW-1	245	2675	NE	No	2250
Garage 1	EW-1	750	2675	NW	No	5000
Garage 1	EW-3	5200	2675	NE	No	50
Kitchen/Living	EW-4	3800	2600	SE	No	50
Kitchen/Living	EW-4	3550	2600	SW	No	3750
Kitchen/Living	EW-4	3100	2600	SE	No	4200
Kitchen/Living	EW-4	4050	2600	SW	No	650
Kitchen/Living	EW-4	7995	2600	NW	No	50
Ldry	EW-4	850	2600	SW	No	600
Ldry	EW-4	1800	2600	NW	No	600
Ldry	EW-4	850	2600	NE	No	650
Entry	EW-4	1240	2600	NE	No	2250
Study	EW-4	2490	2600	NW	No	50
Lounge/Theatre	EW-4	3945	2600	NW	No	50
Lounge/Theatre	EW-4	3450	2600	NE	No	50
Lounge/Theatre	EW-4	2200	2600	SE	No	1600
Bedroom 1	EW-5	4145	2450	SW	No	650
Bedroom 1	EW-4	3895	2450	SE	No	600
ENS	EW-5	3445	2450	SW	No	650
ENS	EW-4	1695	2450	NW	No	650
WIR	EW-4	1540	2450	NW	No	650
Rumpus	EW-4	3140	2450	NW	No	650
Rumpus	EW-5	1090	2450	NE	No	2150
Rumpus	EW-4	2090	2450	SE	No	600
Bath	EW-5	1890	2450	SE	No	600
Bedroom 2	EW-4	3745	2450	NW	No	650
Bedroom 2	EW-4	3450	2450	NE	No	600
Bedroom 2	EW-4	1550	2450	SE	No	600
Bedroom 3	EW-4	3345	2450	NE	No	650
Bedroom 3	EW-5	3700	2450	SE	No	650
Bedroom 3	EW-5	300	2450	SW	No	8550
Bedroom 4	EW-4	2990	2450	NW	No	650

Internal wall type

Wall type	all type Area (m ²) Insulation		Wall wrap or foil	
IW-1 - Cavity wall, direct fix plasterboard, single gap	26.0	Bulk Insulation, No Air Gap R2.5	No	
IW-2 - Cavity wall, direct fix plasterboard, single gap	160.0	No insulation	No	

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No

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★ Star rating:

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Building features continued

Location	Construction	Area (m ²)	Sub floor	Added	Covering
		/	ventilation	insulation	
Garage 1	Waffle pod slab 225 mm 100mm	35.9	None	Waffle Pod 225mm	Bare
Kitchen/Living	Waffle pod slab 300 mm 100mm	50.4	None	Waffle Pod 300mm	Ceramic Tiles 8mm
PWDR	Waffle pod slab 300 mm 100mm	2.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Ldry	Waffle pod slab 300 mm 100mm	5.1	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Entry	Waffle pod slab 300 mm 100mm	9.6	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Study	Waffle pod slab 300 mm 100mm	7.6	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Lounge/Theatre	Waffle pod slab 300 mm 100mm	13.4	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Bedroom 1/Kitchen/Living	Timber Above Plasterboard 19mm	15.8		No Insulation	Carpet 10mm
ENS/Kitchen/Living	Timber Above Plasterboard 19mm	5.6		No Insulation	Ceramic Tiles 8mm
WIR/Kitchen/Living	Timber Above Plasterboard 19mm	5.0		No Insulation	Carpet 10mm
Rumpus/Kitchen/Li ving	Timber Above Plasterboard 19mm	10.5		No Insulation	Carpet 10mm
Rumpus/PWDR	Timber Above Plasterboard 19mm	2.2		No Insulation	Carpet 10mm
Rumpus/Ldry	Timber Above Plasterboard 19mm	3.1		No Insulation	Carpet 10mm
Rumpus/Entry	Timber Above Plasterboard 19mm	8.3		No Insulation	Carpet 10mm
Rumpus	Suspended Timber Floor 19mm	0.7	Totally Open	No Insulation	Carpet 10mm
Bath/Garage 1	Timber Above Plasterboard 19mm	5.5		No Insulation	Ceramic Tiles 8mm
Bedroom 2/Lounge/Theatre	Timber Above Plasterboard 19mm	11.7		No Insulation	Carpet 10mm
Bedroom 3/Garage	Timber Above Plasterboard 19mm	10.5		No Insulation	Carpet 10mm
Bedroom 4/Ldry	Timber Above Plasterboard 19mm	0.6		No Insulation	Carpet 10mm
Bedroom 4/Entry	Timber Above Plasterboard 19mm	1.0		No Insulation	Carpet 10mm
Bedroom 4/Study	Timber Above Plasterboard 19mm	7.6		No Insulation	Carpet 10mm
Bedroom 4/Lounge/Theatre	Timber Above Plasterboard 19mm	1.6		No Insulation	Carpet 10mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Garage 1	Plasterboard	No insulation	Yes
Garage 1	Timber Above Plasterboard	No Insulation	No
Kitchen/Living	Plasterboard	Bulk Insulation	Yes

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Building feature	es continued						
				R4.1			
Kitchen/Living	Timber Above	Plasterboard		No Insulation	No		
PWDR	Timber Above	Plasterboard		No Insulation	No		
Ldry	Plasterboard			Bulk Insulation R4.1	Yes		
Ldry	Timber Above	Plasterboard		No Insulation	No		
Entry	Timber Above	Plasterboard		No Insulation	No		
Study	Timber Above	Plasterboard		No Insulation	No		
Lounge/Theatre	Timber Above	Plasterboard		No Insulation	No		
Bedroom 1	Plasterboard			Bulk Insulation R4.1	Yes		
ENS	Plasterboard			Bulk Insulation R4.1	Yes		
WIR	Plasterboard			Bulk Insulation R4.1	Yes		
Rumpus	Plasterboard			Bulk Insulation R4.1	Yes		
Bath	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	Туре	Diameter (mm)	Sealed/unsealed
PWDR	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

Ceiling fans			
Location	Number	Diameter (mm)	
None Present			

Construction	Added Roof colour insulation
Corrugated Iron	Foil, Gap Above, Medium Reflective Side 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