Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0003462280

Certificate Date: 12 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:	VIC/BDAV/12/1441
Name:	lan Fry
Organisation:	Frys Energywise
Email:	comply@frysenergywise.com.au
Phone:	02 9899 2825
Declaration of interest:	The Assessor has provided design advice to the Applicant
Software:	BERS Pro v4.3.0.2d (3.13)

BDAV AAO:

Overview

Dwelling details

Street: Suburb:	183 Barrenjoey Ro Newport	bad	
State:	NSW	Postcode:	2106
Туре:	New Dwelling	NCC Class: NatHERS	1A
Lot/DP		climate zone:	56
number:	12/654117	Exposure:	Exposed

Key construction and insulation materials

(see following pages for details)

Construction:	AAC cavity panel on battens Corrugated Iron
Insulation:	Waffle pod slab 225 mm R2.5 wall insulation
	R4.0 ceiling insulation No floor insulation
Glazing:	WID-012-04 A Aluminium Awning Window SG 4mmClr

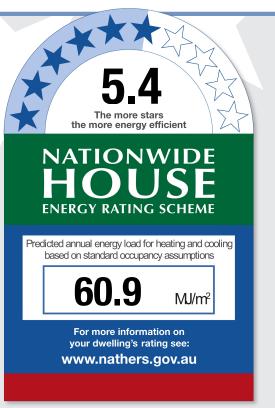
Net floor area (m²)

	/		
Conditioned: Unconditioned:	236.0 42.0	performanc (MJ/m ²)	e loads
Garage:	36.0	Heating:	39.7
TOTAL:	277.0	Cooling:	21.3
		TOTAL:	60.9

Annual thermal

Plan documents

Plan ref/date: J1372 Prepared by: SN



Ceiling penetratio	etails)	maxir penet	TE: This total is the num number of ceiling trations allowed to a		
Sealed: Unsealed: TOTAL:**	5 0 5	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.			
Principle downlight type	: Unk	now	'n		
Window selection - default windows or			Scan to access this certificate online and confirm this is valid.		
Note on allowable window values Only a 5% tolerance to the nomir SHGC window values shown on can be used with this rating.	nated				
Note: Only a +/- 5% SHGC tolera allowed with this rating.	ance is		∎‱∎		
	S				

certificate is no longer valid and the dwelling will need to be rerated to

confirm compliance.

Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

Certificate numbe	r: 0003462280	Certificate Date	: 12 Dec	2018 ★	Star rating:	5.4 NATIO
Building featu	res					
Window type a	nd performand	e value				
Window ID	Window type				U-value	SHGC
WID-002-01 A	WID-002-01 A A	A Residential Bi fold	d Door SG 4mr	n Clear	6.2	0.62
WID-013-07 A	WID-013-07 A A	Numinium Awning V	Vindow DG 4/6	6/4ET	3.9	0.53
WID-008-10 A	WID-008-10 A A	Architectural Para	agon Bi Fold D	oor DG 4/12/4	EA 3.7	0.47
WID-012-04 A	WID-012-04 A A	Numinium Awning V	Vindow SG 4m	mClr	6.4	0.64
WID-005-20 A	WID-005-20 A A	A Residential Intern	al Sliding Door	DG 4/12/4ET	3.2	0.61
WID-006-09 A	WID-006-09 A A Air Gap / 4mm E	N Residential Slidin Energy Advanta	g Window DG	3mm Clear / 6	mm 4.0	0.56
Window sched	ule					
Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shad
Laundry	WID-002-01 A	n/a	2400	820	S	No Shading
Kit/Liv/Dining	WID-013-07 A	n/a	300	2000	S	No Shading
Kit/Liv/Dining	WID-013-07 A	n/a	300	2000	S	No Shading

Kit/Liv/Dining WID-01	3-07 A n/a	200			
		a 300	2000	S	No Shading
Kit/Liv/Dining WID-01	3-07 A n/a	a 700	4900	S	No Shading
Kit/Liv/Dining WID-00	8-10 A n/a	a 300	0 4500	W	No Shading
Kit/Liv/Dining WID-01	3-07 A n/a	a 300	0 6300	Ν	No Shading
Kit/Liv/Dining WID-01	3-07 A n/a	a 300	2400	W	No Shading
Kit/Liv/Dining WID-00	8-10 A n/a	a 300	0 4500	Ν	No Shading
Entry WID-01	3-07 A n/a	a 180	3900	Ν	No Shading
Ensuite WID-01	2-04 A n/a	a 120	0 600	S	No Shading
Ensuite WID-01	2-04 A n/a	a 180	2900	W	No Shading
Ensuite WID-01	2-04 A n/a	a 180	0 1200	Ν	No Shading
Master WID-01	3-07 A n/a	a 180	2700	W	No Shading
Master WID-00	5-20 A n/a	a 240	0 1600	W	No Shading
Master WID-01	3-07 A n/a	a 180	0 1200	Ν	No Shading
Pass/Stair/Loun WID-01	3-07 A n/a	a 120	0 1800	Ν	No Shading
Pass/Stair/Loun WID-01	3-07 A n/a	a 120	0 4300	Ν	No Shading
Pass/Stair/Loun WID-00	5-20 A n/a	a 270	3700	Ν	No Shading
Pass/Stair/Loun WID-00	6-09 A n/a	a 270	3000	E	No Shading
Pass/Stair/Loun WID-01	2-04 A n/a	a 270	000 0	E	No Shading
Bed 4 WID-01	2-04 A n/a	a 250) 3200	E	No Shading
Ensuite WID-01	2-04 A n/a	a 120	006 00	S	No Shading
Bed 3 WID-01	2-04 A n/a	a 120	006 00	S	No Shading
Bed 3 WID-01	2-04 A n/a	a 120	006 0	S	No Shading
Bed 2 WID-01	2-04 A n/a	a 120	0 600	S	No Shading
Bed 2 WID-01	2-04 A n/a	a 120	0 600	S	No Shading
Garage WID-01	2-04 A n/a	a 600	2700	S	No Shading

Roof window and skylight type and performance value						
ID	Window	v type			U-value	SHGC
None Present	:					
Roof window	w and skylig	ht schedule				
Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser

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Nationwide House Energy R	ating Scheme* Co	ertificate			A TATA A
Certificate number: 0003462280	Certificate Date:	12 Dec 2018	★ Star rating:	5.4	NATIONWIDE HOUSE

Building features continued

None Present

External wall ty	уре						
ID	Wall type		Insulation		W	all wrap or foi	
EW-1	AAC cavity pa	nel on battens	Foil, Anti-glare R2.5	Foil, Anti-glare one side + Bulk Insulation R2.5		Yes	
EW-2	AAC cavity pa	nel on battens	No insulation		N	0	
External wall s	chedule						
Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)	
Laundry	EW-1	1790	2750	S	No	100	
Butlers	EW-1	2290	3607	S	No	100	
Kit/Liv/Dining	EW-1	11595	3607	S	No	100	
Kit/Liv/Dining	EW-1	5400	3607	W	No	100	
Kit/Liv/Dining	EW-1	6700	3607	Ν	No	100	
Kit/Liv/Dining	EW-1	2800	3607	W	No	3300	
Kit/Liv/Dining	EW-1	4895	3607	Ν	No	100	
Entry	EW-1	7695	2750	N	No	1600	
Entry	EW-1	2195	2750	E	No	2800	
Ensuite	EW-1	3795	2750	S	No	100	
Ensuite	EW-1	3500	2750	W	No	2400	
Ensuite	EW-1	1200	2750	N	No	2100	
Master	EW-1	4695	2750	W	No	100	
Master	EW-1	4595	2750	N	No	100	
Pass/Stair/Loun	EW-1	11195	2750	Ν	No	100	
Pass/Stair/Loun	EW-1	3900	2750	E	No	2900	
Bed 4	EW-1	1595	2750	N	No	5500	
Bed 4	EW-1	4300	2750	E	No	1300	
Bed 4	EW-1	3295	2750	S	No	100	
Ensuite	EW-1	1890	2750	S	No	100	
Bed 3	EW-1	3190	2750	S	No	100	
Bed 2	EW-1	3990	2750	S	No	100	
WIR	EW-1	2390	2750	S	No	100	
Garage	EW-2	2400	2836	Ν	No	3800	
Garage	EW-2	6000	2836	E	No	400	
Garage	EW-2	5995	2836	S	No	100	

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	44.0	Bulk Insulation, No Air Gap R2	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	183.0	No insulation	No

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Certificate number: 0003462280

0 Certificate Date:

12 Dec 2018

★ Star rating:

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Building features continued

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10015	

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Laundry	Waffle pod slab 225 mm 100mm	5.6	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Butlers	Waffle pod slab 225 mm 100mm	6.2	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Kit/Liv/Dining	Waffle pod slab 225 mm 100mm	76.8	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Entry	Waffle pod slab 225 mm 100mm	21.4	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Powder	Waffle pod slab 225 mm 100mm	4.8	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Ensuite/Kit/Liv/Dini ng	Timber Above Plasterboard 19mm	13.0		No Insulation	Ceramic Tiles 8mm
Master/Kit/Liv/Dini ng	Timber Above Plasterboard 19mm	12.4		No Insulation	Carpet+Rubber Underlay 18mm
Master	Suspended Timber Floor 19mm	8.8	Totally Open	Bulk Insulation, Gap to Floor R2.5	Carpet+Rubber Underlay 18mn
Pass/Stair/Loun/Kit /Liv/Dining	Timber Above Plasterboard 19mm	11.8		No Insulation	Carpet+Rubbe Underlay 18mm
Pass/Stair/Loun/En try	Timber Above Plasterboard 19mm	19.5		No Insulation	Carpet+Rubbe Underlay 18mm
Pass/Stair/Loun/Po wder	Timber Above Plasterboard 19mm	3.7		No Insulation	Carpet+Rubbe Underlay 18mr
Pass/Stair/Loun/G arage	Timber Above Plasterboard 19mm	6.2		Bulk Insulation R2.5	Carpet+Rubbe Underlay 18mm
Bed 4/Garage	Timber Above Plasterboard 19mm	13.6		Bulk Insulation R2.5	Carpet+Rubbe Underlay 18mm
Ensuite/Garage	Timber Above Plasterboard 19mm	4.1		Bulk Insulation R2.5	Ceramic Tiles 8mm
Bed 3/Laundry	Timber Above Plasterboard 19mm	5.7		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Butlers	Timber Above Plasterboard 19mm	4.4		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Entry	Timber Above Plasterboard 19mm	2.2		No Insulation	Carpet+Rubbe Underlay 18mm
Bed 3/Powder	Timber Above Plasterboard 19mm	0.5		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2/Butlers	Timber Above Plasterboard 19mm	1.9		No Insulation	Carpet+Rubber Underlay 18mn
Bed 2/Kit/Liv/Dining	Timber Above Plasterboard 19mm	10.9		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2/Powder	Timber Above Plasterboard 19mm	0.9		No Insulation	Carpet+Rubbe Underlay 18mm
WIR/Kit/Liv/Dining	Timber Above Plasterboard 19mm	8.0		No Insulation	Carpet+Rubbe Underlay 18mm
Ensuite/Kit/Liv/Dini ng	Timber Above Plasterboard 19mm	4.3		No Insulation	Ceramic Tiles 8mm
Ensuite/Garage	Timber Above Plasterboard 19mm	4.4		Bulk Insulation R2.5	Ceramic Tiles 8mm
Garage	Waffle pod slab 225 mm 100mm	36.3	None	Waffle Pod 225mm	Bare

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Building features continued

Location	Construction	Added insulation	Roof space above
Laundry	Timber Above Plasterboard	No Insulation	No
Butlers	Timber Above Plasterboard	No Insulation	No
Kit/Liv/Dining	Plasterboard	Bulk Insulation R4	Yes
Kit/Liv/Dining	Timber Above Plasterboard	No Insulation	No
Entry	Timber Above Plasterboard	No Insulation	No
Powder	Timber Above Plasterboard	No Insulation	No
Ensuite	Plasterboard	Bulk Insulation R4	Yes
Master	Plasterboard	Bulk Insulation R4	Yes
Pass/Stair/Loun	Plasterboard	Bulk Insulation R4	Yes
Bed 4	Plasterboard	Bulk Insulation R4	Yes
Ensuite	Plasterboard	Bulk Insulation R4	Yes
Bed 3	Plasterboard	Bulk Insulation R4	Yes
Bed 2	Plasterboard	Bulk Insulation R4	Yes
WIR	Plasterboard	Bulk Insulation R4	Yes
Ensuite	Plasterboard	Bulk Insulation R4	Yes
Ensuite	Plasterboard	Bulk Insulation R4	Yes
Garage	Plasterboard	No insulation	Yes
Garage	Timber Above Plasterboard	Bulk Insulation R2.5	No

Ceiling penetrations Sealed/unsealed Location Number Туре **Diameter (mm)** Powder **Exhaust Fans** Sealed 1 0 Ensuite 1 **Exhaust Fans** 300 Sealed Ensuite 1 **Exhaust Fans** 300 Sealed Ensuite 1 **Exhaust Fans** Sealed 300 Ensuite 1 **Exhaust Fans** 300 Sealed

Ceiling fans				
Diameter (mm)	Number	Location		
		None Present		
		None Present		

Roof type

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Certificate number: 0003462280	Certificate Date:	12 Dec 2018	★ Star rating:	5.4 NATION ENERGY RATION
Building features continued				
Construction			Added insulation	Roof colour
Corrugated Iron			Bulk, Reflective Side Down, No Air Gap Above R1.3	Dark
Waterproofing Membrane			No Insulation, Only an Air Gap	Dark
Corrugated Iron			Bulk, Reflective Side Down, No Air Gap Above R1.3	Dark
Waterproofing Membrane			No Insulation, Only an Air Gap	Dark

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0003462280

Certificate Date: 12 Dec 2018

★ Star rating: 5.4



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