#### Certificate number: **0003462280-02**

Certificate Date: **30 Aug 2019** 

★ Star rating: 5.6



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)

AAO: BDAV

# Overview

#### **Dwelling details**

	183 Barrenjoey Ro Newport	bad	
State:	NSW	Postcode:	2106
Type:	New Dwelling	NCC Class:	1A
<b>7</b> 18 -		NatHERS	-
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 (m<sup>2</sup>)

Conditioned: Unconditioned:	202.0 53.0	performanc (MJ/m <sup>2</sup> )	e loads
Garage:	37.0	Heating:	37.5
TOTAL:	255.0	Cooling:	19.6
		TOTAL:	57.1

Annual thermal

## **Plan documents**

Plan ref/date: **J1372** Prepared by: **SN** 



Ceiling penetrations (see following pages for details)		**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this		
Sealed: Unsealed:	5	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.		
TOTAL:**	<b>3</b> a L p ta			
Principle downlight	type: Unkr	known		
Window selection default windows		Scan to access this certificate online and confirm this is valid.		
Note on allowable window v				
SHGC window values show	n on page 2			
SHGC window values show can be used with this rating. Note: Only a +/- 5% SHGC	n on page 2	∎‱∎		
Only a 5% tolerance to the r SHGC window values show can be used with this rating. Note: Only a +/- 5% SHGC allowed with this rating. NB: This tolerance ONLY a to SHGC, the U-value can a be lower but not higher thar values stated on page 2.	n on page 2 tolerance is pplies always			

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 number: **0003462280-02** Certificate Date:

30 Aug 2019

★ Star rating:

5.6

# **Building features**

## Window type and performance value

Window ID	Window type	U-value	SHGC
WID-002-01 A	WID-002-01 A AI Residential Bi fold Door SG 4mm Clear	6.2	0.62
WID-012-04 A	WID-012-04 A Aluminium Awning Window SG 4mmClr	6.4	0.64
WID-005-20 A	WID-005-20 A AI Residential Internal Sliding Door DG 4/12/4ET	3.2	0.61
WID-013-07 A	WID-013-07 A Aluminium Awning Window DG 4/6/4ET	3.9	0.53
WID-005-01 A	WID-005-01 A AI Residential Internal Sliding Door SG 4mm Clear	6.3	0.72

#### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Laundry	WID-002-01 A	n/a	2400	820	S	No Shading
Kit/Liv/Dining	WID-012-04 A	n/a	700	4000	S	No Shading
Kit/Liv/Dining	WID-005-20 A	n/a	3000	4300	W	No Shading
Kit/Liv/Dining	WID-013-07 A	n/a	3000	2700	W	No Shading
Kit/Liv/Dining	WID-013-07 A	n/a	3000	1200	Ν	No Shading
Kit/Liv/Dining	WID-012-04 A	n/a	3000	1200	N	No Shading
Entry	WID-012-04 A	n/a	1800	1800	Ν	No Shading
Ensuite	WID-012-04 A	n/a	1500	900	S	No Shading
Ensuite	WID-012-04 A	n/a	1500	1600	W	No Shading
Master	WID-012-04 A	n/a	1800	2700	W	No Shading
Master	WID-005-01 A	n/a	2400	1600	W	No Shading
Master	WID-012-04 A	n/a	1800	1200	Ν	No Shading
Pass/Stair/Loun	WID-012-04 A	n/a	1200	1200	Ν	No Shading
Pass/Stair/Loun	WID-012-04 A	n/a	1200	4300	Ν	No Shading
Pass/Stair/Loun	WID-012-04 A	n/a	2000	1600	N	No Shading
Pass/Stair/Loun	WID-012-04 A	n/a	2000	1600	Ν	No Shading
Pass/Stair/Loun	WID-005-01 A	n/a	2700	2700	E	No Shading
Pass/Stair/Loun	WID-012-04 A	n/a	2700	900	E	No Shading
Bed 4	WID-012-04 A	n/a	2500	3200	E	Vertical Louvres, Vertical Blades
Bath	WID-012-04 A	n/a	1200	2200	S	No Shading
Bed 3	WID-012-04 A	n/a	1200	600	S	No Shading
Bed 3	WID-012-04 A	n/a	1200	600	S	No Shading
Bed 2	WID-012-04 A	n/a	1200	600	S	No Shading
Bed 2	WID-012-04 A	n/a	1200	600	S	No Shading
Garage	WID-012-04 A	n/a	600	2700	S	No Shading

Window type				U-value	SHGC
nd skylight sche	dule				
D	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
	nd skylight sche ID	window/skylight	D Roof Area (m <sup>2</sup> ) window/skylight	D Roof Area (m <sup>2</sup> ) Orientation window/skylight	D Roof Area (m <sup>2</sup> ) Orientation Outdoor shade window/skylight

Certificate number: 0003462280-02 Certificate Date:

30 Aug 2019





5.6

## **Building features continued**

External	wall	typo
LALGINA	wan	ιγρε

ID	Wall type		Insulation		Wa	all wrap or fo
EW-1	AAC cavity pa	inel on battens	Anti-glare foil with bulk no gap R2.5			S
EW-2	AAC cavity panel on battens		No insulation	No insulation		
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	8195	3607	S	No	100
Kit/Liv/Dining	EW-1	5600	3607	W	No	3700
Kit/Liv/Dining	EW-1	2700	3607	W	No	100
Kit/Liv/Dining	EW-1	8195	3607	N	No	100
Entry	EW-1	5395	2750	Ν	No	100
Entry	EW-1	2295	2750	E	No	4900
Ensuite	EW-1	2695	2750	S	No	100
Ensuite	EW-1	2695	2750	W	No	3500
Master	EW-1	4695	2750	W	No	100
Master	EW-1	4795	2750	N	No	100
Pass/Stair/Loun	EW-1	11295	2750	N	No	100
Pass/Stair/Loun	EW-1	4095	2750	E	No	2700
Bed 4	EW-1	4200	2750	E	No	1200
Bed 4	EW-1	3195	2750	S	No	100
Bed 4	EW-1	1500	2750	N	No	5600
Bath	EW-1	2695	2750	S	No	100
Bath	EW-1	900	2750	W	No	100
Bed 3	EW-1	3190	2750	S	No	100
Bed 2	EW-1	3390	2750	S	No	100
WIR	EW-1	2390	2750	S	No	100
Garage	EW-1	2500	2750	Ν	No	3000
Garage	EW-2	2300	2836	Ν	No	3000
Garage	EW-2	6000	2836	E	No	100
Garage	EW-2	6095	2836	S	No	100

Internal wall type				
Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil	
IW-1 - Cavity wall, direct fix plasterboard, single gap	38.0	Bulk Insulation, No Air Gap R2	No	
IW-2 - Cavity wall, direct fix plasterboard, single gap	152.0	No insulation	No	

Floors					
Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Laundry	Waffle pod slab 225 mm 100mm	5.6	None	Waffle Pod 225mm	Ceramic Tiles 8mm

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 number: 0003462280-02 Certificate Date:

30 Aug 2019

★ Star rating:



5.6

Building features	s continued				
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	68.6	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Entry	Waffle pod slab 225 mm 100mm	16.9	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Powder	Waffle pod slab 225 mm 100mm	4.6	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Ensuite/Kit/Liv/Dini ng	Timber Above Plasterboard 19mm	7.0		No Insulation	Ceramic Tiles 8mm
Master/Kit/Liv/Dini ng	Timber Above Plasterboard 19mm	22.1		No Insulation	Carpet+Rubber Underlay 18mm
Pass/Stair/Loun/Kit /Liv/Dining	Timber Above Plasterboard 19mm	13.7		No Insulation	Carpet+Rubber Underlay 18mm
Pass/Stair/Loun/En try	Timber Above Plasterboard 19mm	15.1		No Insulation	Carpet+Rubber Underlay 18mm
Pass/Stair/Loun/Po wder	Timber Above Plasterboard 19mm	3.7		No Insulation	Carpet+Rubber Underlay 18mm
Pass/Stair/Loun/G arage	Timber Above Plasterboard 19mm	7.5		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Pass/Stair/Loun	Suspended Timber Floor 19mm	5.7	Totally Open	Bulk Insulation, Gap to Floor R2.5	Carpet+Rubber Underlay 18mm
Bed 4/Garage	Timber Above Plasterboard 19mm	13.2		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Bath/Laundry	Timber Above Plasterboard 19mm	1.9		No Insulation	Ceramic Tiles 8mm
Bath/Entry	Timber Above Plasterboard 19mm	0.5		No Insulation	Ceramic Tiles 8mm
Bath/Garage	Timber Above Plasterboard 19mm	8.5		Bulk Insulation R2.5	Ceramic Tiles 8mm
Bed 3/Laundry	Timber Above Plasterboard 19mm	2.8		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Butlers	Timber Above Plasterboard 19mm	4.1		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Kit/Liv/Dining	Timber Above Plasterboard 19mm	0.5		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Entry	Timber Above Plasterboard 19mm	1.7		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Powder	Timber Above Plasterboard 19mm	1.0		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2/Kit/Liv/Dining	Timber Above Plasterboard 19mm	10.4		No Insulation	Carpet+Rubber Underlay 18mm
WIR/Kit/Liv/Dining	Timber Above Plasterboard 19mm	6.1		No Insulation	Carpet+Rubber Underlay 18mm
Garage	Waffle pod slab 225 mm 19mm	37.0	None	Waffle Pod 225mm	Bare

Ceiling type					
Location	Construction	Added insulation	Roof space above		
Laundry	Plasterboard	Bulk Insulation	Yes		

Certificate number: 0003462280-02 Certificate Date:

30 Aug 2019

★ Star rating:

5.6 NATI

# **Building features continued**

		R4	
Laundry	Timber Above Plasterboard	No Insulation	No
Butlers	Plasterboard	Bulk Insulation R4	Yes
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
Bath	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
Garage	Plasterboard	No insulation	Yes
Garage	Timber Above Plasterboard	Bulk Insulation R2.5	No

# **Ceiling penetrations**

Location	Number	Туре	Diameter (mm)	Sealed/unsealed
Powder	1	Exhaust Fans	0	Sealed
Ensuite	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		
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.3	Dark		
Waterproofing Membrane		Dark		

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

Nationwide House Energy Rating Scheme* Certificate				
Certificate number: 0003462280-02 Certificate Date:	30 Aug 2019	★ Star rating:	5.6	NATIONW HOU ENERGY RATING SO
Building features continued				
		No Insulation, Only an Air Gap		
Corrugated Iron		Bulk, Reflective Side Down, No Air Gap Above R1.3	Dark	
Waterproofing Membrane		No Insulation, Only an Air Gap	Dark	

Certificate number: 0003462280-02

Certificate Date: 30 Aug 2019

★ Star rating: 5.6



## **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