Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004437844

Certificate Date: 06 Dec 2019

★ Star rating: 6.4



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 v4.3.0.2f (3.13)

BDAV AAO:

Overview

Dwelling details

	15 Sailor Street Llandilo		
State:	NSW	Postcode:	2747
Туре:	New Dwelling	NCC Class: NatHERS	1 A
Lot/DP		climate zone:	28
number:	4246/1234611	Exposure:	Suburban

Key construction and insulation materials

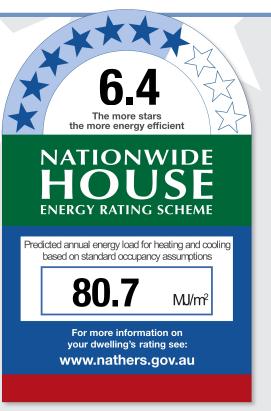
(see following pages for details)

Construction:	Brick Veneer Corrugated Iron
Insulation:	Suspended Timber Floor R2.0 wall insulation
	R4.1 ceiling insulation No floor insulation
Glazing:	DOW-001-01 A AI Sliding Window SG 3Clr

Net floor area	(m²)		ual therma	
Conditioned: Unconditioned:	181.0 43.0	perfo (MJ/I	ormance lo m ²)	ads
Garage:	43.0 30.0	Heatir	ng:	48.8
TOTAL:	224.0	Coolin	ng:	31.9
		TOTA	L:	80.7

Plan documents

Plan ref/date: 2015179 Prepared by: UCD



Ceiling penetration (see following pages for de	ns max	DTE: This total is the imum number of ceiling etrations allowed to a
Unsealed:	29 certi exco 0 this 29 and Loss pend	ng (under a roof) for this ficate. If this number is aded in construction then certificate IS NOT VALID a new certificate is required s of ceiling insulation for the etrations listed has been n into account with the rating.
Principle downlight type:	LED	
Window selection - default windows on	ly	Scan to access this certificate online and confirm this is valid.
Note on allowable window values: Only a 5% tolerance to the nomin: SHGC window values shown on p can be used with this rating.	ated	
Note: Only a +/- 5% SHGC toleran allowed with this rating.	nce is	
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		

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 Document Set ID: 8999644

Nationwide House Energy R	ating Scheme* Co	ertificate			A TATA A
Certificate number: 0004437844	Certificate Date:	06 Dec 2019	★ Star rating:	6.4	NATIONWIDE HOUSE ENERGY RATING SCHEME

Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
DOW-001-01 A	DOW-001-01 A AI Sliding Window SG 3Clr	6.4	0.75
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.4	0.56
DOW-006-01 A	DOW-006-01 A AI Sliding Door SG 5Clr	6.2	0.71

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Living/Entry	DOW-001-01 A	n/a	1800	850	SW	No Shading
Living/Entry	DOW-001-01 A	n/a	1800	850	SW	No Shading
Study	DOW-001-01 A	n/a	1800	850	NW	No Shading
Laundry	TIM-001-01 W	n/a	1000	890	NW	No Shading
Kitchen/Family	DOW-001-01 A	n/a	600	2410	NE	No Shading
Kitchen/Family	DOW-001-01 A	n/a	1200	2410	NE	No Shading
Kitchen/Family	DOW-006-01 A	n/a	2100	2410	SE	No Shading
Bed 2	DOW-001-01 A	n/a	857	1810	NE	No Shading
Bath	DOW-001-01 A	n/a	857	1210	SE	No Shading
Ensuite	DOW-001-01 A	n/a	857	610	SE	No Shading
Master Suite	DOW-001-01 A	n/a	1200	1210	SW	No Shading
Master Suite	DOW-001-01 A	n/a	1200	1210	SW	No Shading
Lounge	DOW-001-01 A	n/a	1200	1210	SW	No Shading
Lounge	DOW-001-01 A	n/a	1200	1210	SW	No Shading
Bed 4	DOW-001-01 A	n/a	857	1810	NW	No Shading
Bed 3	DOW-001-01 A	n/a	857	1810	NE	No Shading

Roof windo	w and skyligh	nt type and performanc	e value			
ID None Dresse	Window	type			U-value	SHGC
None Presen	-					
Roof windo	w and skyligh	nt schedule				
Location	ID	Roof window/skylight no.	Area (m ²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Presen	t					

ID	Wall type		Insulation		Wa	II wrap or fo	
EW-1	Brick Veneer				No)	
EW-2	Single Skin Brick		No insulation	No insulation		No	
EW-3	Brick Veneer		Bulk Insulation R2		No		
EW-4	Fibro Cavity Panel Direct Fix		Bulk Insulation R2		No		
External wa	all schedule						
Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)	
Carago	EW-1	5495	2675	SE	No	100	
Garage		0.00					

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Document Set ID: 8999644 Version: 1, Version Date: 23/01/2020

Nationwide House Energy Rating Scheme* Certificate							
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Building featur	es continued						
Living/Entry	EW-3	1895	2600	SW	No	28	00
Living/Entry	EW-3	2300	2600	SE	No	20	00
Living/Entry	EW-3	2100	2601	SW	No	50	0
Living/Entry	EW-3	2100	2600	SW	No	10	0
Living/Entry	EW-3	5595	2600	NW	No	10	0
Study	EW-3	1790	2600	NW	No	10	0
Laundry	EW-3	2290	2600	NW	No	10	0
Kitchen/Family	EW-3	3795	2600	NW	No	10	0
Kitchen/Family	EW-3	8700	2600	NE	No	10	0
Kitchen/Family	EW-3	3700	2600	SE	No	31	00
Kitchen/Family	EW-3	1095	2600	NE	No	38	00
Butlers Pantry	EW-3	1895	2600	NE	No	38	00
Butlers Pantry	EW-3	1995	2600	SE	No	10	0
Bed 2	EW-3	4005	2440	NE	No	60	0
Bed 2	EW-3	3495	2440	SE	No	60	0
Bath	EW-3	195	2440	SE	No	60	0
Bath	EW-4	2395	2440	SE	No	60	0
Ensuite	EW-4	1590	2440	SE	No	60	0
Master Suite	EW-4	3495	2440	SE	No	60	0
Master Suite	EW-3	2600	610	SW	No	0	
Master Suite	EW-4	2600	1830	SW	No	70	0
Master Suite	EW-4	1895	2440	SW	No	70	0
Lounge	EW-4	2300	2440	SE	No	70	0
Lounge	EW-4	2100	2440	SW	No	60	0
Lounge	EW-3	2100	610	SW	No	0	
Lounge	EW-4	2100	1830	SW	No	60	0
Lounge	EW-3	1000	610	NW	No	0	
Lounge	EW-4	1000	1831	NW	No	60	0
Lounge	EW-3	4595	2440	NW	No	60	0
Bed 4	EW-3	3490	2440	NW	No	60	0
Bed 3	EW-3	4395	2440	NW	No	60	0
Bed 3	EW-3	3095	2440	NE	No	60	0
WIL	EW-3	1590	2440	NE	No	60	0

Internal wall type					
Wall type	Area (m ²)	Insulation	Wall wrap or foil		
IW-1 - Cavity wall, direct fix plasterboard, single gap	29.0	Bulk Insulation, No Air Gap R2	No		
IW-2 - Cavity wall, direct fix plasterboard, single gap	175.0	No insulation	No		

Floors					
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Garage	Waffle pod slab 175 mm 100mm	30.3	None	Waffle Pod 175mm	Bare

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Nationwide House Energy Rating Scheme* Certificate

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Certificate Date: 06 Dec 2019 ★ Star rating:



6.4

Building features continued

building reatures	Soontinded				
Living/Entry	Waffle pod slab 225 mm 100mm	29.4	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Study	Waffle pod slab 225 mm 100mm	5.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Laundry	Waffle pod slab 225 mm 100mm	4.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Kitchen/Family	Waffle pod slab 225 mm 100mm	42.5	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Butlers Pantry	Waffle pod slab 225 mm 100mm	3.6	None	Waffle Pod 225mm	Ceramic Tiles 8mm
WC	Waffle pod slab 225 mm 100mm	2.1	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Passage	Waffle pod slab 225 mm 100mm	8.4	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bed 2/Kitchen/Family	Timber Above Plasterboard 19mm	13.1		No Insulation	Carpet+Rubber Underlay 18mm
Bath/Garage	Timber Above Plasterboard 19mm	1.0		No Insulation	Ceramic Tiles 8mm
Bath/Kitchen/Family	Timber Above Plasterboard 19mm	6.8		No Insulation	Ceramic Tiles 8mm
Ensuite/Garage	Timber Above Plasterboard 19mm	3.9		No Insulation	Ceramic Tiles 8mm
Master Suite/Garage	Timber Above Plasterboard 19mm	8.9		No Insulation	Carpet+Rubber Underlay 18mm
Master Suite/Living/Entry	Timber Above Plasterboard 19mm	6.1		No Insulation	Carpet+Rubber Underlay 18mm
Lounge/Living/Entry	Timber Above Plasterboard 19mm	23.2		No Insulation	Carpet+Rubber Underlay 18mm
Bed 4/Study	Timber Above Plasterboard 19mm	5.3		No Insulation	Carpet+Rubber Underlay 18mm
Bed 4/Laundry	Timber Above Plasterboard 19mm	3.8		No Insulation	Carpet+Rubber Underlay 18mm
Bed 4/WC	Timber Above Plasterboard 19mm	1.2		No Insulation	Carpet+Rubber Underlay 18mm
Bed 4/Passage	Timber Above Plasterboard 19mm	1.1		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Laundry	Timber Above Plasterboard 19mm	0.9		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3/Kitchen/Family	Timber Above Plasterboard 19mm	11.5		No Insulation	Carpet+Rubber Underlay 18mm
WIL/Kitchen/Family	Timber Above Plasterboard 19mm	3.7		No Insulation	Carpet+Rubber Underlay 18mm
Passage/Kitchen/F amily	Timber Above Plasterboard 19mm	4.0		No Insulation	Carpet+Rubber Underlay 18mm
Passage/WC	Timber Above Plasterboard 19mm	1.1		No Insulation	Carpet+Rubber Underlay 18mm
Passage/Passage	Timber Above Plasterboard 19mm	2.4		No Insulation	Carpet+Rubber Underlay 18mm
WIR/Passage	Timber Above Plasterboard 19mm	3.7		No Insulation	Carpet+Rubber Underlay 18mm

Ceiling type			
Location	Construction	Added	Roof space
	Energy Rating Scheme (NatHERS) is an initiativ e www.nathers.gov.au	e of the Australian, state and territory governments.	Page 4 of 7

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Building feature	es continued					
				insulation	above	
Garage	Plasterboard			No insulation	Yes	
Garage	Timber Above	Plasterboard		No Insulation	No	
Living/Entry	Timber Above	Plasterboard		No Insulation	No	
Study	Timber Above	Plasterboard		No Insulation	No	
Laundry	Timber Above	Plasterboard		No Insulation	No	
Kitchen/Family	Plasterboard			Bulk Insulation R4.1	Yes	
Kitchen/Family	Timber Above	Plasterboard		No Insulation	No	
Butlers Pantry	Plasterboard			Bulk Insulation R4.1	Yes	
WC	Timber Above	Plasterboard		No Insulation	No	
Passage	Timber Above	Plasterboard		No Insulation	No	
Bed 2	Plasterboard			Bulk Insulation R4.1	Yes	
Bath	Plasterboard			Bulk Insulation R4.1	Yes	
Ensuite	Plasterboard			Bulk Insulation R4.1	Yes	
Master Suite	Plasterboard			Bulk Insulation R4.1	Yes	
Lounge	Plasterboard			Bulk Insulation R4.1	Yes	
Bed 4	Plasterboard			Bulk Insulation R4.1	Yes	
Bed 3	Plasterboard			Bulk Insulation R4.1	Yes	
WIL	Plasterboard			Bulk Insulation R4.1	Yes	
Passage	Plasterboard			Bulk Insulation R4.1	Yes	

Ceiling	penetrations
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Plasterboard

WIR

Location	Number	Туре	Diameter (mm)	Sealed/unsealed
Living/Entry	3	Downlights - LED	0	Sealed
Study	1	Downlights - LED	0	Sealed
Laundry	1	Exhaust Fans	0	Sealed
Kitchen/Family	6	Downlights - LED	0	Sealed
Butlers Pantry	1	Downlights - LED	0	Sealed
WC	1	Exhaust Fans	0	Sealed
Passage	1	Downlights - LED	0	Sealed
Bed 2	2	Downlights - LED	0	Sealed
Bath	1	Exhaust Fans	300	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
Master Suite	2	Downlights - LED	0	Sealed
Lounge	2	Downlights - LED	0	Sealed
Bed 4	2	Downlights - LED	0	Sealed
Bed 3	2	Downlights - LED	0	Sealed

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Bulk Insulation

R4.1

Yes

vationwide		Rating Scheme* Co	entincate			
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Building fea	tures continue	b				
WIL	1	Downlights - LED		0	Sealed	
Passage	1	Downlights - LED		0	Sealed	
WIR	1	Downlights - LED		0	Sealed	

Ceiling fans			
Location	Number	Diameter (mm)	
None Present			

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

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Nationwide House Energy Rating Scheme* Certificate

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★ Star rating: 6.4



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.

Version: 1, Version Date: 23/01/2020

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