Certificate number: 0002389450-01

Certificate Date: 08 Feb 2018

★ Star rating: 5.8



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 v4.3.0.2b (3.13)

BDAV AAO:

Overview

Dwelling details

Street: Suburb:	Unit 4.2, 79 Cabba Bayview	ge Tree Road	k
State:	NSW	Postcode:	2104
Туре:	New Dwelling	NCC Class: NatHERS	1 A
Lot/DP		climate zone:	56
number:	20/632081	Exposure:	Suburban

Key construction and insulation materials

(see following pages for details)

Construction:	Fibro Cavity Panel Direct Fix Corrugated Iron
	Concrete Slab, Unit Below
Insulation:	R2.0 wall insulation
	R3.5 ceiling insulation
	No floor insulation
Glazing:	BRD-001-01 A ESS Sliding Window
	(52mm) SG 3Clr

Net floor area (m²)

	. ()		
Conditioned: Unconditioned:	112.0 31.0	performanc (MJ/m ²)	e loads
Garage:	23.0	Heating:	36.7
TOTAL:	143.0	Cooling:	17.4
		TOTAL:	54.1

Annual thermal

Plan documents

Lot 20, 79 Cabbage Tree Road Plan ref/date: Prepared by: IW



Ceiling penetration (see following pages for deta	ails)	maxir penet ceilin	TE: This total is the mum number of ceiling trations allowed to a g (under a roof) for this
0			cate. If this number is ded in construction then
Unsealed: 0		this d	certificate IS NOT VALID
TOTAL:**	I I	Loss penet	a new certificate is required. of ceiling insulation for the trations listed has been i into account with the rating.
Principle downlight type:	Unk	now	/n
	У		Scan to access this certificate online and confirm this is valid.
default windows onl Note on allowable window values: Only a 5% tolerance to the nomina SHGC window values shown on pa	ted		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 tolerand allowed with this rating.	ted age 2		certificate online and

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.



Certificate number: **0002389450-01** Certificate Date:

08 Feb 2018

★ Star rating:

5.8

Building features

Window type and performance value

Window ID	Window type	U-value	SHGC
BRD-001-01 A	BRD-001-01 A ESS Sliding Window (52mm) SG 3CIr	6.4	0.76
BRD-041-01 A	BRD-041-01 A SIG Fixed Lite Externally Glazed (125mm) SG 4Clr	6.2	0.74
BRD-063-01 A	BRD-063-01 A SIG Fixed Lite (67mm) SG 4Clr	6.0	0.78
BRD-033-01 A	BRD-033-01 A ESS Sliding Door (80mm) SG 4Clr	6.2	0.74

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	BRD-001-01 A	n/a	1350	1800	S	No Shading
Ensuite 1	BRD-041-01 A	n/a	900	900	S	No Shading
Bath	BRD-041-01 A	n/a	900	900	Ν	No Shading
Bedroom 2	BRD-001-01 A	n/a	1350	1800	Ν	No Shading
Kitchen/Living	BRD-041-01 A	n/a	1350	900	E	No Shading
Kitchen/Living	BRD-001-01 A	n/a	1350	1800	S	No Shading
Kitchen/Living	BRD-063-01 A	n/a	500	12300	Ν	No Shading
Lounge	BRD-033-01 A	n/a	2400	3000	S	No Shading
Entry/Dining	BRD-063-01 A	n/a	2400	600	Ν	No Shading
Entry/Dining	BRD-063-01 A	n/a	2400	600	Ν	No Shading
Entry/Dining	BRD-001-01 A	n/a	1350	1800	E	No Shading

ROOT WINDO	w and skylight	type and performanc	e value			
ID	Window t	уре			U-value	SHGC
None Presen	it					
Roof windo	w and skylight	schedule				
Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
	it					

External wal	ll type					
ID	Wall type		Insulation		V	Vall wrap or foil
EW-1	Fibro Cavity P	anel Direct Fix	No insulation		1	No
EW-2	Brick Veneer		No insulation		1	No
EW-3	Fibro Cavity P	anel Direct Fix	Foil, Anti-glare	e one side + Bull	Insulation R2	/es
EW-4	Brick Veneer		Bulk Insulation	n R2	1	No
External wal	I schedule					
Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Garage 1	EW-1	3700	1055	N	No	0
Garage 1	EW-2	3700	1605	Ν	No	600
Garage 1	EW-1	1895	1055	E	No	0
Garage 1	EW-2	1895	1605	E	No	11200
Bedroom 1	EW-3	600	2661	E	No	11200
Bedroom 1	EW-3	1400	1055	E	No	0

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

lationwide Hou		ang concine	ocru	noute		¥
Certificate number:	0002389450-01	Certificate Date:	: (08 Feb 2018	★ Star rating:	5.8 NATIONV HOU
uilding feature	es continued					
Bedroom 1	EW-4	1400	1605	E	No	600
Bedroom 1	EW-3	3700	1055	S	No	0
Bedroom 1	EW-4	3700	1605	S	No	600
Ensuite 1	EW-3	1895	2660	S	No	600
Ensuite 1	EW-3	595	1055	S	No	0
Ensuite 1	EW-4	595	1606	S	No	2600
Bath	EW-3	1990	1055	Ν	No	0

1605

1055

1605

2660

1605

2661

1055

1605

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Bath

Bedroom 2

Bedroom 2

Kitchen/Living

Kitchen/Living

Kitchen/Living

Kitchen/Living

Kitchen/Living

Lounge

Lounge

Lounge

Lounge

Entry/Dining

Entry/Dining

Entry/Dining

Entry/Dining

EW-4

EW-3

EW-4

EW-3

EW-4

EW-3

EW-3

EW-4

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1990

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4490

2190

2305

195

3795

3795

2995

2995

4095

4095

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4095

Internal wall type					
Wall type	Area (m ²)	Insulation	Wall wrap or foil		
IW-1 - Cavity wall, direct fix plasterboard, single gap	120.0	No insulation	No		
IW-2 - Cavity wall, direct fix plasterboard, single gap	23.0	Bulk Insulation, No Air Gap R2	No		
IW-3 - Cavity brick, plasterboard	36.0	No Insulation	No		

Floors					
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Garage 1	Concrete Slab, Unit Below 150mm	16.0	None	No Insulation	Bare
Garage 1	Waffle pod slab 175 mm 100mm	6.9	None	Waffle Pod 175mm	Bare
Bedroom 1	Concrete Slab, Unit Below 150mm	22.4	None	No Insulation	Carpet 10mm
Ensuite 1	Concrete Slab, Unit Below 150mm	6.6	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 150mm	7.7	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2	Concrete Slab, Unit Below 150mm	17.2	None	No Insulation	Carpet 10mm

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Certificate number: 0002389450-01 Certificate Date:

08 Feb 2018

★ Star rating:



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Building features continued						
Corridor	Concrete Slab, Unit Below 150mm	7.9	None	No Insulation	Ceramic Tiles 8mm	
Kitchen/Living	Concrete Slab, Unit Below 150mm	31.1	None	No Insulation	Ceramic Tiles 8mm	
Lounge	Suspended Concrete Slab 150mm	9.8	Open	No Insulation	Ceramic Tiles 8mm	
Entry/Dining	Concrete Slab, Unit Below 150mm	17.1	None	No Insulation	Ceramic Tiles 8mm	

Ceiling type

Location	Construction	Added insulation	Roof space above	
Garage 1	Plasterboard	No insulation	Yes	
Garage 1	Plasterboard	No insulation	Yes	
Bedroom 1	Plasterboard	Bulk Insulation R3.5	Yes	
Ensuite 1	Plasterboard	Bulk Insulation R3.5	Yes	
Bath	Plasterboard	Bulk Insulation R3.5	Yes	
Bedroom 2	Plasterboard	Bulk Insulation R3.5	Yes	
Corridor	Plasterboard	Bulk Insulation R3.5	Yes	
Kitchen/Living	Plasterboard	Bulk Insulation R3.5	Yes	
Lounge	Plasterboard	Bulk Insulation R3.5	Yes	
Entry/Dining	Plasterboard	Bulk Insulation R3.5	Yes	

Ceiling penetrations					
Location	Number	Туре	Diameter (mm) Sealed/unsealed		
None Present					

Ceiling fans			
Location	Number	Diameter (mm)	
None Present			

Roof type				
Construction	Added Roof colour insulation			
Corrugated Iron	Bulk, Reflective Medium Side Down, Anti- glare Up R1.3			
Corrugated Iron	Bulk, Reflective Medium			

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: 0002389450-01	Certificate Date:	08 Feb 2018	★ Star rating:	5.8	NATIONWIDE HOUSE ENERGY RATING SCHEME
Building features continued					
			Side Down, Anti- glare Up R1.3		

Certificate number: 0002389450-01

Certificate Date: 08 Feb 2018

★ Star rating: 5.8



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