Certificate number: 0003772951 Certificate Date: 13 Apr 2019 ★ Star rating: 5.1



Assessor details

Accreditation

number: 20941

Name: Christopher Lockhart Smith

Organisation: ecodweller

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Declaration No potential conflicts of interest to

of interest: declare

Software: AccuRate Sustainability V2.3.3.13 SP4

AAO: ABSA

Overview

Dwelling details

Street: **82 Innes Road**Suburb: **Manly Vale**

State: NSW Postcode: 2093
Type: New NCC Class: 1a

NatHERS

Lot/DP climate zone: **56**

number: Lot 5 DP 9392 Exposure: Suburban

Key construction and insulation materials

(see following pages for details)

Construction: Timber/Plasterboard wall

Metal roof/Plasterboard

Slab

Insulation: R2.7 wall insulation

Ceiling (uninsulated) Floor (uninsulated)

Glazing: Timber B DG Air Fill High Solar Gain

low-E -Clear

Net floor area (m²)

 Conditioned:
 56.6

 Unconditioned:
 27.6

 Garage:
 21.4

 TOTAL:
 84.2

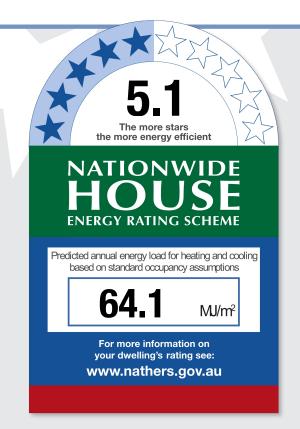
Annual thermal performance loads (MJ/m²)

Heating: **38.1** Cooling: **26.0** TOTAL: **64.1**

Plan documents

Plan ref/date: 1901_DA00-24_April 2019

Prepared by: Alexandra Woods



Ceiling penetrations

(see following pages for details)

Sealed: 1

TOTAL:**

Unsealed:

**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.

Principle downlight type: No Ceiling Penetration Downlights

0

Window selection - default windows only

Note on allowable window values: With a 10% tolerance to the nominated SHGC window values shown on page 2, the following ratings are achieved:

-10% SHGC **5.1**

+10% SHGC **5.2**

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 the rating listed above falls below 6.0 stars or the required rating, then the window with this tolerance can NOT be selected.

Scan to access this certificate online and confirm this is valid.



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Building features

Window type and performance value				
Window ID	Window type	U-value	SHGC	
ALM-001-01 A	DEFAULTS: Aluminium A SG Clear	6.7	0.57	
ALM-002-01 A	DEFAULTS: Aluminium B SG Clear	6.7	0.70	
TIM-003-01 W	DEFAULTS: Timber A DG Air Fill Clear-Clear	3.0	0.48	
TIM-004-03 W	DEFAULTS: Timber B DG Air Fill High Solar Gain low-E -Clear	2.3	0.32	
TIM-003-03 W	DEFAULTS: Timber A DG Air Fill High Solar Gain low-E -Clear	2.3	0.26	
TIM-002-03 W	DEFAULTS: Timber B SG High Solar Gain Low-F	4.3	0.50	

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
BED:	TIM-004-03 W	W1.07	1100	1100	W	None
BED:	TIM-004-03 W	W1.01	2500	3900	S	None
BED:	TIM-004-03 W	W1.02	2500	800	N	None
BED:	TIM-004-03 W	W1.03	2500	600	E	None
BATH	ALM-002-01 A	W1.05	2500	1800	Е	None
BATH	ALM-001-01 A	W1.04	2500	1010	S	None
ENTRY	TIM-003-01 W	W1.08	2500	900	W	None
GARAGE	TIM-002-03 W	W1.06	2500	880	E	None
LIVING/KITCH	HEN TIM-004-03 W	W2.06	720	3200	Е	None
LIVING/KITCH	HEN TIM-003-03 W	W2.05	720	1650	Е	None
LIVING/KITCH	HEN TIM-004-03 W	W2.01	2440	3440	S	None
LIVING/KITCH	HEN TIM-004-03 W	W2.10	500	3780	W	None
LIVING/KITCH	HEN TIM-003-03 W	W2.07	2440	1535	N	None
LIVING/KITCH	HEN TIM-003-01 W	W2.09	2440	940	N	None
LIVING/KITCH	HEN TIM-003-03 W	W2.07A	2440	2450	N	None
LIVING/KITCH	HEN TIM-004-03 W	W2.08	750	2440	N	None
LIVING/KITCH	HEN TIM-004-03 W	W2.08A	750	2440	N	None
WC	TIM-004-03 W	W.204	550	1740	Е	None

Roof window and	l skylight type and	performance value
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ID	Window type	U-value	SHGC
VEL-011-01 W	Velux: VELUX FS - Fixed Skylight DG 3mm LoE 366 / 8.5mm Arg Gap / 5.36mm Clear La	on 2.6	0.24

Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
BED:	VEL-011-01 W	S.01	2.2	S	None	Roller Blind
BATH	VEL-011-01 W	S02	1.1	Е	None	Roller Blind
LIVING/KITCHE	N VEL-011-01 W	S03	2.2	Е	None	None

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-006	Timber/Plasterboard	Glass fibre batt (k = 0.044 density = 12 kg/m3): R2.7	No

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Building features continued

EW-007	Bituminous roof membrane			No)	
External wall sc	hedule					
Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
BED:	EW-006	4555	2500	W	Yes	2250
BED:	EW-006	3900	2500	S	Yes	900
BED:	EW-006	2670	2500	Е	No	
BED:	EW-006	850	2500	N	Yes	1750
BED:	EW-006	1750	2500	Е	Yes	1000
BATH	EW-007	1805	2500	Е	Yes	
BATH	EW-006	1010	2500	S	Yes	1750
ENTRY	EW-006	900	2500	S	Yes	5600
ENTRY	EW-006	1905	2500	W	Yes	1200
ENTRY	EW-006	900	2500	N	Yes	2900
ENTRY	EW-006	4350	1250	W	Yes	2250
GARAGE	EW-006	3915	2660	N	Yes	1750
GARAGE	EW-006	5400	2660	Е	No	
GARAGE	EW-006	3556	2660	W	Yes	2250
LIVING/KITCHEN	EW-006	4350	2700	Е	No	
LIVING/KITCHEN	EW-006	900	2970	S	Yes	
LIVING/KITCHEN	EW-006	1650	3240	Е	No	
LIVING/KITCHEN	EW-006	3950	3351	S	Yes	
LIVING/KITCHEN	EW-006	8110	2700	W	Yes	1200
LIVING/KITCHEN	EW-006	2475	2700	N	Yes	2800
LIVING/KITCHEN	EW-006	2475	2700	N	Yes	2800
LIVING/KITCHEN	EW-006	2475	750	N	Yes	2800
LIVING/KITCHEN	EW-006	2475	750	N	Yes	2800
WC	EW-006	900	2970	S	No	
WC	EW-006	900	2970	N	No	
WC	EW-006	1750	2700	Е	No	

Internal wall type				
ID	Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-001	Plasterboard	6.9		No
IW-002	Plasterboard	43.2	Rockwool batt: R2.5	No

Floors					
Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
BED:/Ground	POLISHED CONCRETE Slab 100 mm: bare/bare	15.6			
BATH/Ground	Concrete Slab 100 mm: ceramic tiles/bare	4.6			Ceramic tile
ENTRY/Outdoor Air	ENTRY FLOOR	5.9		R2.5	

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Building features continued

ENTRY/Ground	POLISHED CONCRETE Slab 100 mm: bare/bare	3.8	
GARAGE/Ground	POLISHED CONCRETE Slab 100 mm: bare/bare	21.4	
LIVING/KITCHEN/ BED:	TIMBER/AAC/PB	4.6	
LIVING/KITCHEN/ GARAGE	TIMBER/AAC/PB	18.1	
LIVING/KITCHEN/ ENTRY	TIMBER/AAC/PB	5.9	
LIVING/KITCHEN/ BATH	TIMBER/AAC/PB	3.1	
LIVING/KITCHEN/ Outdoor Air	ENTRY FLOOR	2.2	R2.5
WC/BED:	TIMBER FLOOR: ceramic tiles/plasterboard	1.6	Ceramic tile

Ceiling type				
Location	Construction	Added insulation	Roof space above	
WC/BED:	TIMBER FLOOR: ceramic tiles/plasterboard		No	
LIVING/KITCHEN/ BED:	TIMBER/AAC/PB		No	
LIVING/KITCHEN/ BATH	TIMBER/AAC/PB		No	
LIVING/KITCHEN/ ENTRY	TIMBER/AAC/PB		No	
LIVING/KITCHEN/ GARAGE	TIMBER/AAC/PB		No	

Ceiling penetrations				
Location	Number	Туре	Diameter (mm)	Sealed/unsealed
LIVING/KITCH	HEN 1	Ceiling exhaust fan	200	Sealed

Ceiling fans			
Location	Number	Diameter (mm)	
None Present			

Roof type		
Construction	Added insulation	Roof colour
Metal deck/R1.3 ANTICON R3.5/PB	R4.8	Medium
DECK ROOF	R3.5	Medium



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

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