# Energy Rating Summary of energy rating ER-2001

Attention: Mr Howard McGinniskin

For: Simonds Homes Pty /Ltd

Date: 09/01/2015

The ratings have been assessed on the drawings provided by Simonds Homes design consultants

Address: lot 801 Pelican way Lara Vic 3212

Start writing 6.0

Total energy; 157.1 MJ / M2:

The following specifications is incorporated into the rating for the above dwelling

Floor;

Waffle pod slab

Roof:

Concrete tiled roof as per architectural specifications

Ceiling;

4.0 batts between Joice and ceiling including garage

#### Walls:

External walls have a minimum rating of 2.8 Rockwool bulk insulation Internal walls 1.5 rockwool insulation between conditioned and unconditioned spaces including the walls between the garage and the dwelling

### Glazing;

Туре	U-Value	SHGC	Area (m²)
XALM-001-03 A: Aluminium A SG High Solar Gain Low-E	5.40	0.49	23.30

Refer attached certificate for locations. (u values must not exceed and shgc can be within 10% +-

upgraded aluminium frames were used throughout. - Seav permits the installation of internal holland blinds External doors must have weather strips; Windows and sliding doors must have weather seals; Gaps and cracks around doors, windows, and service penetrations must be sealed; Exhaust fans must be self-closing, equipped with a draughts stop, or otherwise sealed; Obstructions, such as neighbouring homes, have been taken into account in each rating; Utility doors are sealed.

Certificate Number: BTOBB1071BAA Date of Certificate: 09.01.2015 Star rating: 6



#### Assessor details

Accreditation

VIC/BDAV1/10/124564 number: Name: **Energy Homes P/L** 

Organisation: Steve ICILA

Email: StevelCILA@Outlook.com

Phone: 040444444

Declaration

of interest: Employed by designer of the building

FirstRate5: 5.2.0 (3.12) Software:

AAO: **BDAV1** 

## Overview

## **Dwelling details**

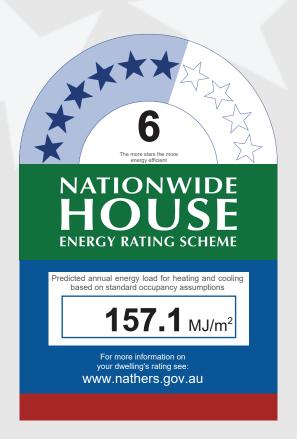
2Lot 801 mPelican way Address:

Suburb: Lara

State: VIC 3212 Postcode: **New Home** NCC Class: Class 1a Type:

Lot/DP **NatHERS** 801 number: climate zone: 6

Exposure: suburban



#### **Key construction and insulation materials**

(see following pages for details)

Construction: Wall: **Brick Veneer** 

Roof: Roof Tiles Floor: Waffle Pod

Insulation: Wall: R2.8 Earthwool

Roof: R4.6 Earthwool

Floor: Concrete Glass/Aluminium

Single Glazed

Ceiling penetrations

(see following pages for

details)

Sealed:

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.

Principal downlight type: **Light Emmitting Diode (LED)** 

15

0

15

#### Net floor area (m<sup>2</sup>)

Glazing:

Conditioned: 194.039 Unconditioned: n Garage: 40.2 TOTAL: 234.239

## **Annual thermal** performance loads

(MJ/m<sup>2</sup>)

188.1 Heating: Cooling: 27 TOTAL: 2.15.1

## Plan documents

09/01/2015 Plan ref/date:

**Simonds Consultants** Prepared by:

## Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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 the 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.

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



https://www.fr5.com.au/QRCodeLand

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



Star rating: 6



# **Building Features**

Window ID	Window type					U-value	SHGC
ALM-001-03 A	Aluminium A SG	High Solar Gain	Low-E			5.4	0.49
Windows schee	dule						
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shade
ALM-001-03 A	Opening W02A	1800	1050	N	BED 01		No
ALM-001-03 A	Opening W07	600	1450	S	BATH 01		No
ALM-001-03 A	Opening W08	600	1810	S	BED 03		No
ALM-001-03 A	Opening W09	2100	2770	E	IIVING		No
ALM-001-03 A	Opening W10	400	1810	E	KITCHEN		No
ALM-001-03 A	Opening W11	2100	1540	E	LAUNDRY		No
ALM-001-03 A	Opening W06	1029	850	W	WC		No
ALM-001-03 A	Opening W05	600	1810	W	bED 02		No
ALM-001-03 A	Opening W04	600	1810	W	LIVING ROOM		No
ALM-001-03 A	Opening W03	1029	850	W	EN-SUITE		No

Roof windows and	d skylight type and performance value		
ID	Window type	U-value	SHGC
Roof window and	skylight schedule NONE INSTALLED		
ID	Roof window/ skylight no.  Area (m²)  Orientation  Zone name	Outdoor shade	Indoor shade/ diffuser

Туре	Insulation	Wall wrap
1 : FR5 - Brick Veneer	Earthwool batt: R2.8 (R2.8)	Yes
2 : FR5 - Internal Plasterboard Stud Wall		No
3 : FR5 - Double Brick Finished		No



Star rating: 6



# **Building Features**

Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Veneer	5.9	N	BED 01 Master	No	No
1 : FR5 - Brick Veneer	8.95	W	BED 01	No	No
1 : FR5 - Brick Veneer	5.3	W	ENS	Yes	No
1 : FR5 - Brick Veneer	7.9	W	LOUNGE	No	No
1 : FR5 - Brick Veneer	2.0	W	BED 02	No	No
2 : FR5 - Brick Veneer	3.1	W	WC	Yes	No
1 : FR5 - Brick Veneer	28.8	S	BATH/BED 03/ LIVING	No	No
2 : FR5 - Brick Veneer	35.6	E	LIVING/KITCHEN/GARAGE	Yes	No
	_				
Internal wall type					
Туре	Area (m²	nsulation	1		
1 : FR5 - Internal Plasterboard Stud Wall	86.935				
2 : FR5 - Internal Plasterboard Stud Wall	49.8	Rockwoo	l batt: R2.8 (R2.8)		

Floors					
Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
BED 01	Waffle Pod : 375-85: 385mm waffle pod, 85mm concrete (R1)	15.8	Enclosed	0.0	Carpet
WIR	Waffle Pod: 375-85: 375mm waffle pod, 85mm concrete (R0.9)	3.6	Enclosed	0.0	Carpet
ENS	Waffle Pod : 375-85: 375mm waffle pod, 85mm concrete (R0.9)	4.9	Enclosed	0.0	Tiles

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







# **Building Features**

BED 02	Waffle Pod: 375-85: 385mm waffle pod, 85mm concrete (R1)	13.2	Enclosed	0.0	Carpet
BED 03	Waffle Pod : 375-85: 385mm waffle pod, 85mm concrete (R1)	12.4	Enclosed	0.0	Carpet
LIVING/KITCHEN/HALL	Waffle Pod : 375-85: 385mm waffle pod, 85mm concrete (R1)	53.1	Enclosed	0.0	floattimber
PTRY	Waffle Pod : 375-85: 385mm waffle pod, 85mm concrete (R1)	4.1	Enclosed	0.0	floattimber
BATH	Waffle Pod : 375-85: 385mm waffle pod, 85mm concrete (R1)	7.4	Enclosed	0.0	Tiles
WC	Waffle Pod : 375-85: 385mm waffle pod, 85mm concrete (R1)	1.4	Enclosed	0.0	Tiles
LDRY	Waffle Pod : 375-85: 385mm waffle pod, 85mm concrete (R1)	4.8	Enclosed	0.0	Tiles
GARAGE	Waffle Pod : 375-85: 385mm waffle pod, 85mm concrete (R1)	38.8	Enclosed	0.0	none

Caili	na type	Trucc	Roof
Velli	IIU LVDC	11110	ROOM

Location	Material	Added insulation	Roof space above
BED 01	Plasterboard	4.0	Yes
WIR	Plasterboard	4.0	Yes
ENS	Plasterboard	4.0	Yes
BED 02	Plasterboard	4.0	Yes
BED 03	Plasterboard	4.0	Yes
LIVING/KITCHEN/HALL	Plasterboard	4.0	Yes
PTRY	Plasterboard	4.0	Yes
BATH	Plasterboard	4.0	Yes
WC	Plasterboard	4.0	Yes
LDRY	Plasterboard	4.0	Yes
GARAGE	Plasterboard	4.0	Yes

## **Ceiling penetrations**

Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
ENS	1	Exhaust Fans	150	150	Sealed
LIVING/KITCHEN/HALL	12	Downlights	100	50	Sealed
BATH	1	Exhaust Fans	150	150	Sealed

## **Ceiling fans**

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# **Building Features**

Location	Number	Diameter (mm)

Roof type		
Material	Added insulation	Roof colour
Cont:Attic-Continuous	0.0	dark

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**Additional information** 

6 Star Compliant

## **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 this 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 an 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