

Accredited Rater No:VIC/BDAV/10/1044

ABN: 20542140162

PH: 0433 283 009

EM:Starating@yahoo.com.au

04 August, 2017

ENERGY RATING SUMMARY:

The energy rating assessment was conducted based on information contained in the attached endorsed plans. The endorsed plans should be read in conjunction with the prelevant Energy Efficiency Report. The property will achieve average 6 Stars (min 5 stars) only if the recommendations outlined on page 1 of energy report are implemented during the construction. In assessing the development all effort was taken in trying to achieve economies of scale by attempting to retain where possible uniformity in particular materials.

The following rating and energy usage are achieved **1 VINE STREET, HEIDELBERG** as per energy efficiency reports.

ADDRESS	BASELINE RATING		MJ/m ²
G.01	****	5.6 STAR	140.4
G.02	****	7.3STAR	81.5
G.03	****	7.2 STAR	85.0
G.04	****	6.4 STAR	110.6
G.05	****	5.6 STAR	141.4
1.01	****	6.1 STAR	120.0
1.02	****	7.7 STAR	67.0
1.03	****	7.1 STAR	89.3
1.04	****	7.2 STAR	85.6
2.01	****	5.2 STAR	157.0
2.02	****	5.8 STAR	133.6
2.03	****	5.8 STAR	133.2
3.01	****	5.3 STAR	150.4
Average Rating	****	6.3 STAR	

SPECIFICATION:

<u>WALL:</u> All conditioned area external concrete panel walls with furring channels to have 25MM Foilboard fixed to internal side.

WA.05a,05b,06a,06b,06c,06d,07a to have 25mm foilboard fixed to internal side of concrete wall.

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WA.07b,08b,11a,11b,13a,13b to have R2.7 bulk insulation within 90mm frames. WA.04a,07c,08c,08d,10a,10b,12a,12b to have R1.5 bulk insulation within 60mm frames.

WA.09 to have R1.5 to 60mm studs and R2.7 to 90mm studs.

CEILINGS:

R5.0 bulk ceiling insulation to ceilings overlapped with upper floor balcony(including G04, G05, 101,103,201,202,203).

R5.0 bulk insulation plus sarking to all flat deck roofs.

FLOORS:

R1.5 insulation fixed to ceiling of basement overlapped with ground floor apartments.

R1.5 bulk insulation to elevated floor exposed to external air (UNIT 1.04).

R1.5 bulk insulation to unit 3.01's floor overlap with second floor corridor.

WINDOWS:(Refer to NatHERS Certificate for individual window performance value)

All untis: All windows and glazing doors to be aluminium frames. All type A windows(awning,casement) to achieve U-VALUE=4.1 and SHGC= 0.47(Double Glazing). All type B windows(sliding, fixed) to achieve U-VALUE=4.1 and SHGC=0.52 (Double Glazing).

LOSS OF CEILING INSULATION:

Refer to NatHERS Certificate for all sealed and unsealed ceiling penetrations. No Downlights had been modeled.

OTHER:

- Thermal insulation must form a continuous barrier with ceilings and walls contributing
 to the thermal barrier. Insulation to abut or overlap adjoining insulation other than
 being interrupted by a structural member. Bulk insulation to be installed so that it
 maintains its thickness.
- All external doors to be fitted with weather strips.
- All windows to be fitted with weather seals.
- Gaps & cracks around doors, windows and service penetrations to be sealed. Exhaust fans to be self-closing (fitted with a 'DRAFTSTOPPA' or similarly sealed).

The BCA 2015 Part 3.12.5.5 requires the lamp power density or illumination power density of artificial lighting not to exceed

- (i) In a class 1 building, 5 W/m²
- (ii) On a verandah or balcony attached to the class 1, 4 W/m²

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(iii) In a class 10 building, 3 W/m²

LIMITATION:

This assessment has been based on but not limited to the sources of information detailed above. Whilst Starating has endeavoured to ensure all information in this report is accurate at time of printing, we do not accept any liability in relation to anything that is done as a result of information that may be omitted in part or whole of this document. This assessment provides the minimum requirements to achieve compliance with the regulations specified and does not provide advice on achieving environmental best practice or optimising the design for Energy Efficiency or Cost.

Building Permit documentation will need to be amended to reflect any recommendations provided in this report. It is the responsibility of the applicant / permit holder to ensure all conditions listed within this report, are satisfied prior to the completion of the proposed work and issue of Certificate of Final Inspection.

Yours sincerely

Roger Rao STARATING

ACCREDITED ENERGY RATER
ACCREDITATION NO: VIC/BDAV/10/1044



Nationwide House Energy Rating Scheme* — Class 2 summary

Certificate Number: 3RS401XNQB Date of Certificate: 7 Aug 2017

★ Average star rating: 6.3



Assessor details

Accreditation

number: VIC/BDAV/10/1044

Name: rujun rao

Organisation:

starating@yahoo.com.au Email:

0433283009 Phone:

No potential conflicts of interest to Declaration

of interest: declare

Software: FirstRate5 v5.2.6

AAO: **BDAV**

Dwelling details

1 VINE STREET Address: Suburb: **HEIDELBERG**

VIC State: Postcode: 3084

NATIONWIDE **ENERGY RATING SCHEME** The rating listed above is the average of all units in this building. For more information on your dwelling's rating see: www.nathers.gov.au **Summary of all dwellings**

Certification details

		Annual the	rmal performance load	ds (MJ/m2)	
Certificate number	Unit number	Heating load	Cooling load	Total load	Star rating
TZ2FFANCV4	1.01	98	22	120	6.1
ITQTUILTL7	1.02	54.7	12.3	67	7.7
C809Q13JCU	1.03	71.2	18.1	89.3	7.1
LZ93O6Q4XG	1.04	66.2	19.4	85.6	7.2
O92ZUPNE0Q	2.01	136.4	20.6	157	5.2
54H4W2EAE1	2.02	118.3	15.3	133.6	5.8
IEI6M74SWR	2.03	98	34.2	132.2	5.8
VAEYMMTVK9	3.01	125.6	24.8	150.4	5.3
9SKSKPXW7L	G.01	115.8	24.6	140.4	5.6
O0XHSBI14D	G.02	74.2	7.3	81.5	7.3
PHW15MFU4P	G.03	70.1	14.9	85	7.2
WECFI3O7T9	G.04	87.3	23.3	110.6	6.4
BGLZZQJ3I2	G.05	118.8	22.6	141.4	5.6
			s building achieves an a		_

^{*} 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: 9SKSKPXW7L Date of Certificate: 6 Aug 2017 ★ Star rating: 5.6



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: G.01, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

5.6 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 140.4 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS
Floor: AS PER WORKING DRAWINGS

ALUMINIUM

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Insulation:

Glazing:

Conditioned: 61.3
Unconditioned: 3.4
Garage: TOTAL: 64.7

Annual thermal performance loads (MJ/m²)

Heating: 115.8 Cooling: 24.6 TOTAL: 140.4

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

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/QRCodeLanding?PublicId=9SKSKPXW7L

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★ Star rating: **5.6**

Building Features

Window ID	Window type					U-value	SHGC
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E -Clear						0.52
Windows sched	lule						
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shad
ALM-006-03 A	W6	1750	3300	SW	Bedroom 1		No
ALM-006-03 A	W5	1750	3009	SW	Bedroom 2		No
ALM-006-03 A	W3	2700	800	SW	Kitchen/Living		No
ALM-006-03 A	W4	2700	2810	SW	Kitchen/Living		No
ALM-006-03 A	W2	2700	1600	SE	Kitchen/Living		No
ALM-006-03 A	W03	2700	800	SE	Kitchen/Living		No
ALM-006-03 A	W01	2700	1550	SE	Kitchen/Living		No

Roof window	s and skylight type and performance value	
ID	Window type	U-value SHGC
Roof window	and skylight schedule	

Туре	Insulation				Wall wrap
1 : VA - AFS162 FINSH 3 WA06c	Polystyrene	e expanded (k = 0.039) (R0.6)		Yes
2 : VA - AFS162 party wall 1 WA08a					No
3 : VA - AFS162 FINSH 4 WA06d	Polystyrene	e expanded (k = 0.039) (R0.6)		Yes
4 : VA - AFS162 internal 3 WA07c	Glass fibre batt: R1.5 (R1.5)				No
5 : VA - AFS162 party wall 2 WA08b	Glass fibre	batt (k = 0.04	14 density = 12 kg/m3	s) (R2.7)	No
6 : FR5 - Fibro Clad Framed					No
7 : VA - AFS162 FINSH 1 WA06a	Polystyrene	e expanded (k = 0.039) (R0.6)		Yes
External wall schedule					
Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
1 : VA - AFS162 FINSH 3 WA06c	5.8	SW	Bedroom 1	Yes	No
2 : VA - AFS162 party wall 1 WA08a	9.3	NW	Bedroom 1	No	No

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★ Star rating: 5.6



Building Features

3 : VA - AFS162 FINSH 4 WA06d	3.1	SW	Bedroom 1	Yes	No
1 : VA - AFS162 FINSH 3 WA06c	5.3	SW	Bedroom 2	Yes	Yes
3 : VA - AFS162 FINSH 4 WA06d	2.9	SW	Bedroom 2	Yes	No
4 : VA - AFS162 internal 3 WA07c	4.4	NE	Bath	Yes	Yes
4 : VA - AFS162 internal 3 WA07c	2.5	NE	Bath	No No	No
4 : VA - AFS162 internal 3 WA07c	8	NE	Ens	No No	No
5 : VA - AFS162 party wall 2 WA08b	3.7	NW	Ens	No	No
6 : FR5 - Fibro Clad Framed	10.1	SW	Kitchen/Living	No	Yes
6 : FR5 - Fibro Clad Framed	6.8	SE	Kitchen/Living	Yes	Yes
1 : VA - AFS162 FINSH 3 WA06c	1.4	SE	Kitchen/Living	Yes	Yes
1 : VA - AFS162 FINSH 3 WA06c	3.7	SE	Kitchen/Living	Yes	No
6 : FR5 - Fibro Clad Framed	4.2	SE	Kitchen/Living	Yes	Yes
1 : VA - AFS162 FINSH 3 WA06c	1.7	SE	Kitchen/Living	Yes	Yes
7 : VA - AFS162 FINSH 1 WA06a	2.6	NE	Kitchen/Living	Yes	No
4 : VA - AFS162 internal 3 WA07c	9.4	NE	Kitchen/Living	Yes	Yes
2 : VA - AFS162 party wall 1 WA08a	4.3	NW	Wir	No	No

Internal wall type

Туре	Area (m²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	82.4	Glass fibre batt: R1.5 (R1.5)
2 : FR5 - Internal Plasterboard Stud Wall	16	
3 : VA - 92mm Internal Plasterboard WA11a	39.8	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)

Floors					
Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	SuspSlab	11.3	Enclosed	1.5	Carpet
Bedroom 2	SuspSlab	11.5	Enclosed	1.5	Carpet
Bath	SuspSlab	3.4	Enclosed	1.5	Tiles
Ens	SuspSlab	4	Enclosed	1.5	Tiles
Kitchen/Living	SuspSlab	25.5	Enclosed	1.5	floattimbe
Corridor	SuspSlab	5.5	Enclosed	1.5	floattimber

3.5

Enclosed

Ceiling type

Wir

SuspSlab

Carpet

1.5

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Building Features

Certificate Number: 9SKSKPXW7L

Location	Material		A	added insulation	Roof space above
Ceiling penetra	tions				
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Bath	1	Exhaust Fans	200	200	Sealed
Ens	1	Exhaust Fans	200	200	Sealed
Kitchen/Living	1	Exhaust Fans	200	200	Sealed
Ceiling fans					
Location	Number	Diameter (mm)			

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium

Certificate Number: 9SKSKPXW7L Date of Certificate: 6 Aug 2017 ★ 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 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

Certificate Number: **O0XHSBI14D** Date of Certificate: **6 Aug 2017** ★ Star rating: **7.3**



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: G.02, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

7.3 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 81.5 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Insulation: Wall: AS PER WORKING DRAWINGS
Roof: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS
Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL:" 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Conditioned: 61.2
Unconditioned: 3.5
Garage: TOTAL: 64.7

Annual thermal performance loads (MJ/m²)

Heating: **74.2**Cooling: **7.3**TOTAL: **81.5**

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

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 ing?PublicId=O0XHSBI14D

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Building Features

Window ID	Window type					U-value	SHGC
ALM-005-03 A	Aluminium A DG Argon Fill High Solar Gain low-E -Clear 4.				4.1	0.47	
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E -Clear					4.1	0.52
Windows schee	dule						
	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shace
Window ID		Height (mm)	Width (mm) 2000	Orientation SW	Zone name Bedroom 1		Outdoor shad
	Window no.		. ,				

Roof windo	ows and skylight type and performance value	
ID	Window type	U-value SHGC
Roof windo	ow and skylight schedule	

External wall type					
Туре	Insulation				Wall wrap
1 : VA - AFS162 FINSH 4 WA06d	Polystyren	e expanded (l	k = 0.039) (R0.6)		Yes
2 : VA - AFS162 party wall 1 WA08a					No
3 : VA - AFS162 FINSH 3 WA06c	Polystyrene expanded (k = 0.039) (R0.6)				
4: VA - AFS162 internal 3 WA07c	Glass fibre batt: R1.5 (R1.5)				
5 : VA - AFS162 party wall 2 WA08b	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)				No
6 : FR5 - Fibro Clad Framed					
External wall schedule Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
	/ (iii)	Officiation			Laves
1 : VA - AFS162 FINSH 4 WA06d	3.1	SW	Bedroom 1	Yes	No
1 : VA - AFS162 FINSH 4 WA06d	9.3	SW SE	Bedroom 1 Bedroom 1	Yes No	No No
1 : VA - AFS162 FINSH 4 WA06d					
1 : VA - AFS162 FINSH 4 WA06d 2 : VA - AFS162 party wall 1 WA08a	9.3	SE	Bedroom 1	No	No
1 : VA - AFS162 FINSH 4 WA06d 2 : VA - AFS162 party wall 1 WA08a 3 : VA - AFS162 FINSH 3 WA06c	9.3	SE SW	Bedroom 1 Bedroom 1	No Yes	No Yes







Building Features

5 : VA - AFS162 party wall 2 WA08b	3.9	SE	Ens	No	No
4 : VA - AFS162 internal 3 WA07c	7.9	NE	Ens	No	No
4 : VA - AFS162 internal 3 WA07c	12	NE	Kitchen/Living	No	No
2 : VA - AFS162 party wall 1 WA08a	17.7	NW	Kitchen/Living	No	No
3 : VA - AFS162 FINSH 3 WA06c	2.7	SW	Kitchen/Living	Yes	No
6 : FR5 - Fibro Clad Framed	7.3	SW	Kitchen/Living	Yes	Yes
2 : VA - AFS162 party wall 1 WA08a	4.1	SE	Wir	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	81.8	Glass fibre batt: R1.5 (R1.5)
2 : FR5 - Internal Plasterboard Stud Wall	16	
3 : VA - 92mm Internal Plasterboard WA11a	40.6	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)

Floors						
Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering	
Bedroom 1	SuspSlab	11.3	Enclosed	1.5	Carpet	
Bedroom 2	SuspSlab	11.5	Enclosed	1.5	Carpet	
Bath	SuspSlab	3.5	Enclosed	1.5	Tiles	
Ens	SuspSlab	4.2	Enclosed	1.5	Tiles	
Kitchen/Living	SuspSlab	25.5	Enclosed	1.5	floattimber	
Corridor	SuspSlab	5.3	Enclosed	1.5	floattimber	
Wir	SuspSlab	3.3	Enclosed	1.5	Carpet	

Ceiling type						
Location	Mate	rial	A	Added insulation	Roof space above	
Ceiling penetra	tions					
Location	Numb	per Type	Width (mm)	Length (mm)	Seal/ unsealed	
Bath	1	Exhaust Fans	200	200	Sealed	
Ens	1	Exhaust Fans	200	200	Sealed	
			200	200	Sealed	





Building Features

Certificate Number: **00XHSBI14D**

Lagation	بر مرامور با	Diameter (mm)
Location	number	Diameter (mm)

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium

Certificate Number: **O0XHSBI14D** Date of Certificate: **6 Aug 2017** ★ Star rating: **7.3**



Additional information

Explanatory notes

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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

Certificate Number: PHW15MFU4P Date of Certificate: 6 Aug 2017 ★ Star rating: 7.2



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: G.03, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

7.2 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 85 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Insulation: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS
Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Conditioned: 56.5
Unconditioned: 3.2
Garage: TOTAL: 59.7

Annual thermal performance loads (MJ/m²)

Heating: **70.1**Cooling: **14.9**TOTAL: **85**

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

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/QRCodeLanding?PublicId=PHW15MFU4P

^{*} 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: **7.2**

Building Features

Window ID	Window type	Window type					
ALM-005-03 A	Aluminium A DO	Aluminium A DG Argon Fill High Solar Gain low-E -Clear					
ALM-006-03 A	Aluminium B D0	Aluminium B DG Argon Fill High Solar Gain low-E -Clear					
Window ID	Window no.	Height (mm)	Width (mm)	Orientation			Outdoor shad
vvindow ID	vvindow no.	Height (mm)	. , ,	Orientation			Outdoor snac
ALM 005 02 A	1/1/2	1750	750	CIM	Enc		No
ALM-005-03 A	W3	1750	750	_ SW	Ens		No
	W3 W3	1750 1750	750 750	SW NW	Ens Ens		No No
ALM-005-03 A ALM-006-03 A ALM-006-03 A							
ALM-006-03 A	W3	1750	750	NW	Ens		No

Roof windows and skylight type and performance value						
ID	Window type				U-value	SHGC
Roof window and	skylight schedule					
				Zone name	Outdoor shade	Indoor shade/ diffuser

Туре	Insulation				Wall wrap
1 : VA - AFS162 FINSH 3 WA06c	Polystyren	e expanded (k = 0.039) (R0.6)		Yes
2 : VA - AFS200 FINSH 2 WA05b	Polystyrene expanded (k = 0.039) (R0.6)				Yes
3 : VA - AFS162 FINSH 4 WA06d	Polystyrene expanded (k = 0.039) (R0.6)				Yes
4 : VA - AFS162 party wall 4 WA08d	Glass fibre batt: R1.5 (R1.5)			No	
5 : VA - AFS162 party wall 1 WA08a					No
6 : FR5 - Fibro Clad Framed					No
7: VA - AFS162 internal 3 WA07c	Glass fibre	batt: R1.5 (R	1.5)		No
8 : VA - AFS162 party wall 4 WA09	Glass fibre batt: R1.5 (R1.5);Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)				No
External wall schedule					
Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
1 : VA - AFS162 FINSH 3 WA06c	2.1	SW	Ens	Yes	No
1 : VA - AFS162 FINSH 3 WA06c	3.3	SW	Ens	Yes	No



★ Star rating: **7.2**



Building Features

2 : VA - AFS200 FINSH 2 WA05b	1.4	NW	Ens	Yes	No
2 : VA - AFS200 FINSH 2 WA05b	2.1	NW	Ens	No No	No
3 : VA - AFS162 FINSH 4 WA06d	1.8	SW	Ens	Yes	No
3 : VA - AFS162 FINSH 4 WA06d	0.8	NW	Ens	Yes	No
1 : VA - AFS162 FINSH 3 WA06c	0.9	SW	Bedroom 2	Yes	No
1 : VA - AFS162 FINSH 3 WA06c	5.4	SW	Bedroom 2	Yes	Yes
3 : VA - AFS162 FINSH 4 WA06d	0.5	SW	Bedroom 2	Yes	No
3 : VA - AFS162 FINSH 4 WA06d	2.9	SW	Bedroom 2	Yes	No
4 : VA - AFS162 party wall 4 WA08d	6.1	NE	Bath	No	No
5 : VA - AFS162 party wall 1 WA08a	2.8	NW	Kitchen/Living	No	No
6 : FR5 - Fibro Clad Framed	7.7	SW	Kitchen/Living	Yes	Yes
1 : VA - AFS162 FINSH 3 WA06c	2.7	SW	Kitchen/Living	Yes	No
5 : VA - AFS162 party wall 1 WA08a	17.7	SE	Kitchen/Living	No	No
7: VA - AFS162 internal 3 WA07c	2.9	NE	Kitchen/Living	No	No
8 : VA - AFS162 party wall 4 WA09	9.5	NE	Kitchen/Living	No	No
5 : VA - AFS162 party wall 1 WA08a	8.7	NE	Bedroom 1	No	No
2 : VA - AFS200 FINSH 2 WA05b	0.8	NW	Bedroom 1	Yes	No
2 : VA - AFS200 FINSH 2 WA05b	6	NW	Bedroom 1	Yes	No
3 : VA - AFS162 FINSH 4 WA06d	0.4	NW	Bedroom 1	Yes	No
3 : VA - AFS162 FINSH 4 WA06d	3.3	NW	Bedroom 1	Yes	No

Internal wall type

Туре	Area (m²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	73	Glass fibre batt: R1.5 (R1.5)
2 : FR5 - Internal Plasterboard Stud Wall	16.4	
3 : VA - 92mm Internal Plasterboard WA11a	23.2	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Ens	SuspSlab	4.6	Enclosed	1.5	Tiles
Bedroom 2	SuspSlab	10.1	Enclosed	1.5	Carpet
Bath	SuspSlab	3.2	Enclosed	1.5	Tiles
Kitchen/Living	SuspSlab	27.2	Enclosed	1.5	floattimber
Corridor	SuspSlab	2.1	Enclosed	1.5	floattimber



Number Diameter (mm)

★ Star rating: **7.2**



Building Features

Location

Bedroom 1	SuspSlab	12.5	Enclosed	1.5	Carpet
Ceiling type					
Location	Material			Added insulation	Roof space above
Ceiling penetr	ations				
Location	Number Type		Width (mm)	Length (mm)	Seal/ unsealed

Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Ens	1	Exhaust Fans	200	200	Sealed
Bath	1	Exhaust Fans	200	200	Sealed
Kitchen/Living	1	Exhaust Fans	200	200	Sealed
Ceiling fans					

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium

Certificate Number: PHW15MFU4P Date of Certificate: 6 Aug 2017

★ Star rating: 7.2



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 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.

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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

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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

Certificate Number: WECFI3O7T9 Date of Certificate: 6 Aug 2017 ★ Star rating: 6.4



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: G.04, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

6.4 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 110.6 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Insulation: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS
Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Conditioned: 90.6
Unconditioned: 4.4
Garage: TOTAL: 95

Annual thermal performance loads (MJ/m²)

Heating: **87.3**Cooling: **23.3**TOTAL: **110.6**

Plan documents

Plan ref/date: 13.7.2017
Prepared by: ArdenSiena

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.

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https://www.fr5.com.au/QRCodeLanding?PublicId=WECFI3O7T9

^{*} 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: 6.4



Building Features

Window ID	Window type	Window type					
ALM-005-03 A	Aluminium A DO	Aluminium A DG Argon Fill High Solar Gain low-E -Clear					0.47
ALM-006-03 A	Aluminium B D0	Aluminium B DG Argon Fill High Solar Gain low-E -Clear					0.52
Windows sched	dule						
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shade
ALM-005-03 A	W7	1750	2000	NE	Bedroom 3		No
ALM-005-03 A	W6	1750	2000	NE	Bedroom 2		No
ALM-006-03 A	W3	1750	1000	NE	Ens		No
ALM-005-03 A	W4	1750	300	SE	Ens		No
ALM-005-03 A	W4	1750	500	SE	Ens		No
ALM-006-03 A	W2	2700	2800	NW	Kitchen/Living		No
ALM-006-03 A	W1	2700	3560	NW	Kitchen/Living		No
ALM-006-03 A	W5	2700	3130	NE	Bedroom 1		No

Roof windows and skylight type and performance value							
ID	Window type				U-value	SHGC	
Roof window ar	nd skylight schedule						
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser	

Туре	Insulation	Wall wrap
1 : VA - AFS162 FINSH 1 WA06a	Polystyrene expanded (k = 0.039) (R0.6)	Yes
2 : VA - AFS162 internal 1 WA07a	Polystyrene expanded (k = 0.039) (R0.6)	Yes
3 : VA - AFS162 party wall 1 WA08a		No
4 : VA - AFS162 party wall 4 WA09	Glass fibre batt: R1.5 (R1.5); Glass fibre batt ($k = 0.044$ density = 12 kg/m3) (R2.7)	No
5 : VA - AFS162 FINSH 1+ WA10b	Polystyrene expanded (k = 0.039) (R0.6); Glass fibre batt: R1.5 (R1.5)	Yes
6 : VA - AFS162 FINSH 4+internal	Polystyrene expanded (k = 0.039) (R0.6); Glass fibre batt: R1.5 (R1.5)	Yes
7 : VA - AFS200 FINSH 1 WA05a	Polystyrene expanded (k = 0.039) (R0.6)	Yes
8 : FR5 - Fibro Clad Framed		No







Yes

Building Features

9: VA - AFS162 FINSH 4 WA06d

10 : FR5 - Brick Veneer					No			
External wall schedule								
Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves			
1 : VA - AFS162 FINSH 1 WA06a	8.1	NE	Bedroom 3	Yes	Yes			
2 : VA - AFS162 internal 1 WA07a	8	SW	Bedroom 3	No	No			
3 : VA - AFS162 party wall 1 WA08a	11	SE	Bedroom 3	No	No			
1 : VA - AFS162 FINSH 1 WA06a	9.8	NE	Bedroom 2	Yes	Yes			
4 : VA - AFS162 party wall 4 WA09	9.4	SW	Bath	No	No			
2 : VA - AFS162 internal 1 WA07a	3.4	SE	Bath	No	No			
5 : VA - AFS162 FINSH 1+ WA10b	4.2	NE	Ens	No	No			
5 : VA - AFS162 FINSH 1+ WA10b	4.4	SE	Ens	Yes	Yes			
5 : VA - AFS162 FINSH 1+ WA10b	1.4	SE	Ens	Yes	No			
6 : VA - AFS162 FINSH 4+internal	2.3	NE	Ens	No	No			
1 : VA - AFS162 FINSH 1 WA06a	6.4	NE	Kitchen/Living	No	No			
7 : VA - AFS200 FINSH 1 WA05a	1.3	NW	Kitchen/Living	Yes	No			
8 : FR5 - Fibro Clad Framed	7.7	NW	Kitchen/Living	Yes	No			
7 : VA - AFS200 FINSH 1 WA05a	2.6	NW	Kitchen/Living	Yes	No			
8 : FR5 - Fibro Clad Framed	9.7	NW	Kitchen/Living	Yes	No			
3 : VA - AFS162 party wall 1 WA08a	14.7	SW	Kitchen/Living	No	No			

SE

NE

NW

NW

SW

NE

Kitchen/Living

Kitchen/Living

Kitchen/Living

Kitchen/Living

Entry/Corridor

Bedroom 1

No

No

Yes

Yes

No

Yes

Polystyrene expanded (k = 0.039) (R0.6)

Internal wall type

10: FR5 - Brick Veneer

3: VA - AFS162 party wall 1 WA08a

9: VA - AFS162 FINSH 4 WA06d

9: VA - AFS162 FINSH 4 WA06d

9: VA - AFS162 FINSH 4 WA06d

2: VA - AFS162 internal 1 WA07a

Туре	Area (m ²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	124.8	Glass fibre batt: R1.5 (R1.5)
2 : VA - 92mm Internal Plasterboard WA11a	29.4	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)
3 : VA - 51mm Internal Plasterboard 2 WA12b	4.4	Glass fibre batt: R1.5 (R1.5)
4 : FR5 - Internal Plasterboard Stud Wall	5.4	

3

3.5

0.7

1.4

11.4

8.9

No

No

No

No

No

Yes



★ Star rating: 6.4



Building Features

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
		. ,			
Bedroom 3	SuspSlab	12.2	Enclosed	1.5	Carpet
Bedroom 2	SuspSlab	10.8	Enclosed	1.5	Carpet
Bath	SuspSlab	4.4	Enclosed	1.5	Tiles
Ens	SuspSlab	1.9	Enclosed	1.5	Tiles
Ens	SuspSlab	5	Enclosed	1.5	Tiles
Kitchen/Living	SuspSlab	30.2	Enclosed	1.5	floattimbe
Kitchen/Living	SuspSlab	7.8	Enclosed	1.5	floattimbe
Entry/Corridor	SuspSlab	7.8	Enclosed	1.5	floattimbe
Bedroom 1	SuspSlab	15	Enclosed	1.5	Carpet

Location	Materia	Material			Roof space above	
Ens	Plaster	Plasterboard			No	
Kitchen/Living	Plaster	Plasterboard			No	
Ceiling penetra	tions Numbe	r Tyno	Width (mm)	Length (mm)	Seal/ unsealed	
		7.	. ,	,		
Bath	1	Exhaust Fans	200	200	Sealed	
Ens	1	Downlights	200	200	Sealed	
Kitchen/Living	1	Exhaust Fans	200	200	Sealed	
Ceiling fans						

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium
Slab:Slab - Suspended Slab	0.0	medium

Certificate Number: **WECFI3O7T9** Date of Certificate: **6 Aug 2017**

★ Star rating: 6.4



Additional information

Explanatory notes

About this report

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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.

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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.

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Disclaimer

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Contact

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Certificate Number: **BGLZZQJ3I2** Date of Certificate: **6 Aug 2017** ★ Star rating: **5.6**



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: G.05, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

5.6 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 141.4 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: **AS PER WORKING DRAWINGS** Floor: **AS PER WORKING DRAWINGS**

Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS

Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Insulation:

Conditioned: 58
Unconditioned: 3.7
Garage: TOTAL: 61.7

Annual thermal performance loads (MJ/m²)

Heating: 118.8 Cooling: 22.6 TOTAL: 141.4

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

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/QRCodeLanding?PublicId=BGLZZQJ3I2



★ Star rating: 5.6



Building Features

Window ID	Window type						SHGC
ALM-006-03 A	Aluminium B D0	Aluminium B DG Argon Fill High Solar Gain low-E -Clear					
ALM-005-03 A	ALM-005-03 A Aluminium A DG Argon Fill High Solar Gain low-E -Clear					4.1	0.47
Windows sched	lule						
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shade
ALM-006-03 A	G.01	2700	1700	NE	Bedroom 1		No
ALM-005-03 A	G.03	1750	2000	NE	Bedroom 2		No
ALM-005-03 A	G.02	1750	1000	NW	Ens		No
ALM-006-03 A	G.07	2700	2308	SE	Kitchen/Living		No
ALM-006-03 A	G.06	2700	800	SE	Kitchen/Living		No
ALM-006-03 A	G.06	2700	800	NE	Kitchen/Living		No
ALM-006-03 A	G.05	1750	2585	NE	Kitchen/Living		No
ALM-006-03 A	G.04	1750	2760	NE	Kitchen/Living		No

Roof windows a	and skylight type and perf	ormance v	alue			
ID	Window type				U-value	SHGC
Roof window ar	nd skylight schedule					
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser

Туре	Insulation	Wall wrap		
1 : VA - AFS162 party wall 1 WA08a		No		
2 : VA - AFS162 internal 1 WA07a	Polystyrene expanded (k = 0.039) (R0.6)	Yes		
3 : FR5 - Fibro Clad Framed		No		
4 : VA - AFS200 FINSH 1 WA05a	Polystyrene expanded (k = 0.039) (R0.6)			
5 : VA - AFS162 internal 2 WA07b	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)			
6 : VA - Internal to lift	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)			
7 : VA - 200Concrete Panel 1 WA04a	Glass fibre batt: R1.5 (R1.5)	No		
External wall schedule				



★ Star rating: **5.6**



Building Features

1 : VA - AFS162 party wall 1 WA08a	11	NW	Bedroom 1	No	No
2 : VA - AFS162 internal 1 WA07a	8.9	SW	Bedroom 1	No	No
3 : FR5 - Fibro Clad Framed	4.8	NE	Bedroom 1	Yes	Yes
4 : VA - AFS200 FINSH 1 WA05a	8.1	NE	Bedroom 2	No	No
5 : VA - AFS162 internal 2 WA07b	7.3	SW	Bath	No	No
4 : VA - AFS200 FINSH 1 WA05a	1.6	NW	Ens	Yes	No
4 : VA - AFS200 FINSH 1 WA05a	4.3	NW	Ens	Yes	Yes
4 : VA - AFS200 FINSH 1 WA05a	3.8	NE	Ens	No	No
6: VA - Internal to lift	1.3	SE	Kitchen/Living	No	No
7: VA - 200Concrete Panel 1 WA04a	14.7	SW	Kitchen/Living	No	No
3 : FR5 - Fibro Clad Framed	8.6	SE	Kitchen/Living	Yes	Yes
3 : FR5 - Fibro Clad Framed	2.2	NE	Kitchen/Living	No	Yes
4 : VA - AFS200 FINSH 1 WA05a	7.2	NE	Kitchen/Living	No	Yes
4 : VA - AFS200 FINSH 1 WA05a	9.7	NE	Kitchen/Living	No	No
2 : VA - AFS162 internal 1 WA07a	5.2	SW	Entry/Corridor	No	No
6 : VA - Internal to lift	6.7	SE	Entry/Corridor	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	42.6	Glass fibre batt: R1.5 (R1.5)
2 : VA - 92mm Internal Plasterboard WA11a	67	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	SuspSlab	13.2	Enclosed	1.5	Carpet
Bedroom 2	SuspSlab	6.6	Enclosed	1.5	Carpet
Bedroom 2	SuspSlab	4.5	Enclosed	1.5	Carpet
Bath	SuspSlab	3.7	Enclosed	1.5	Tiles
Ens	SuspSlab	2	Enclosed	1.5	Tiles
Ens	SuspSlab	1.7	Enclosed	1.5	Tiles
Kitchen/Living	SuspSlab	19.2	Enclosed	1.5	floattimber
Kitchen/Living	SuspSlab	4.1	Enclosed	1.5	floattimbe
Entry/Corridor	SuspSlab	6.8	Enclosed	1.5	floattimbei







Building Features

Certificate Number: BGLZZQJ3I2

Location	Material			Added insulation	Roof space above	
Bedroom 2	Plasterb	oard		5.0	No	
Ens	Plasterb	oard		5.0	No	
Kitchen/Living	Plasterb	oard	5.0	No		
Location	Number	Type	Midth (mm)	Longth (rom)	Coal/ upooled	
Location	Number	Type	Midth (mm)	Longth (rom)	Cool/ unocolod	
Location Bath	Number 1	Type Exhaust Fans	Width (mm)	Length (mm)	Seal/ unsealed Sealed	
Bath	Number 1 1		, ,			
Location Bath Ens Kitchen/Living	Number 1 1 1	Exhaust Fans	200	200	Sealed	
Bath Ens	1 1	Exhaust Fans Exhaust Fans	200	200	Sealed	

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium
Slab:Slab - Suspended Slab	0.0	light

Certificate Number: **BGLZZQJ3I2** Date of Certificate: **6 Aug 2017** ★

★ Star rating: 5.6



Additional information

Explanatory notes

About this report

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General Information

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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.

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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.

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Disclaimer

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Contact

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Certificate Number: TZ2FFANCV4 Date of Certificate: 6 Aug 2017 ★ Star rating: 6.1



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: 1.01, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

6.1 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 120 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Insulation: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS

Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Conditioned: 79.9 Unconditioned: 3.7 Garage: -TOTAL: 83.6

Annual thermal performance loads (MJ/m²)

 Heating:
 98

 Cooling:
 22

 TOTAL:
 120

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

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/QRCodeLanding?PublicId=TZ2FFANCV4

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Building Features

Certificate Number: TZ2FFANCV4

Window ID	Window type						SHGC
ALM-006-03 A	Aluminium B D0	G Argon Fill High S	Solar Gain low-	E -Clear		4.1	0.52
ALM-005-03 A	Aluminium A DO	Aluminium A DG Argon Fill High Solar Gain low-E -Clear					
Windows sched	dule						
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shade
ALM-006-03 A	W6	1750	2931	SW	Bedroom 2		No
ALM-006-03 A	W5	1750	2958	SW	Bedroom 3		No
ALM-006-03 A	W3	2700	800	SW	Kitchen/Living		No
ALM-006-03 A	W4	2700	2810	SW	Kitchen/Living		No
ALM-006-03 A	W2	2700	1600	SE	Kitchen/Living		No
ALM-006-03 A	W03	2700	800	SE	Kitchen/Living		No
ALM-005-03 A	W01	1750	1550	SE	Kitchen/Living		No
ALM-006-03 A	W07	2700	2000	SW	Bedroom 1		No

Roof windows a	and skylight type and perf	ormance v	alue			
ID	Window type				U-value	SHGC
Roof window ar	nd skylight schedule					
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser

Туре	Insulation			Wall wrap	
1 : VA - AFS162 FINSH 1 WA06a	Polystyren	e expanded (k = 0.039) (R0.6)		Yes
2 : VA - AFS162 internal 2 WA07b	Glass fibre	batt (k = 0.04	14 density = 12 kg/m3) (R2.7)	No
3 : VA - AFS162 party wall 1 WA08a					No
4 : FR5 - Fibro Clad Framed					No
5 : VA - AFS162 FINSH 3 WA06c	Polystyren	e expanded (k = 0.039) (R0.6)		Yes
6: VA - AFS162 internal 3 WA07c	Glass fibre	batt: R1.5 (R	1.5)		No
External wall schedule					
Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
1 : VA - AFS162 FINSH 1 WA06a	8.1	SW	Bedroom 2	Yes	Yes







Building Features

1 : VA - AFS162 FINSH 1 WA06a	8.1	SW	Bedroom 3	Yes	Yes
2 : VA - AFS162 internal 2 WA07b	6.8	NE	Bath	No	No
2 : VA - AFS162 internal 2 WA07b	10.3	NE	Ens	No	No
3 : VA - AFS162 party wall 1 WA08a	5.2	NW	Ens	No	No
4 : FR5 - Fibro Clad Framed	10	SW	Kitchen/Living	Yes	No
4 : FR5 - Fibro Clad Framed	6.9	SE	Kitchen/Living	Yes	Yes
5 : VA - AFS162 FINSH 3 WA06c	1.4	SE	Kitchen/Living	Yes	Yes
5 : VA - AFS162 FINSH 3 WA06c	3.7	SE	Kitchen/Living	Yes	No
1 : VA - AFS162 FINSH 1 WA06a	5.8	SE	Kitchen/Living	No	No
1 : VA - AFS162 FINSH 1 WA06a	2.6	NE	Kitchen/Living	Yes	No
6: VA - AFS162 internal 3 WA07c	14	NE	Kitchen/Living	Yes	Yes
6: VA - AFS162 internal 3 WA07c	1.8	NE	Kitchen/Living	No	No
5 : VA - AFS162 FINSH 3 WA06c	2.3	SW	Bedroom 1	Yes	Yes
4 : FR5 - Fibro Clad Framed	5.5	SW	Bedroom 1	Yes	Yes
1 : VA - AFS162 FINSH 1 WA06a	0.9	SW	Bedroom 1	Yes	No
3 : VA - AFS162 party wall 1 WA08a	12.1	NW	Bedroom 1	No	No

Internal wall type

Туре	Area (m²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	105.8	Glass fibre batt: R1.5 (R1.5)
2 : FR5 - Internal Plasterboard Stud Wall	35.8	
3 : VA - 92mm Internal Plasterboard WA11a	20.4	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)

Floors					
Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 2	SuspSlab	9.8	Enclosed	0.0	Carpet
Bedroom 3	SuspSlab	9.6	Enclosed	0.0	Carpet
Bath	SuspSlab	3.7	Enclosed	0.0	Tiles
Ens	SuspSlab	7.3	Enclosed	0.0	Tiles
Kitchen/Living	SuspSlab	21.4	Enclosed	0.0	floattimber
Kitchen/Living	SuspSlab	13	Enclosed	0.0	floattimber
Entry/Corridor	SuspSlab	3.9	Enclosed	0.0	floattimber
Bedroom 1	SuspSlab	15	Enclosed	0.0	Carpet

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Building Features

Certificate Number: TZ2FFANCV4

Location	Mate	rial		Added insulation	Roof space above	
Kitchen/Living	Plaste	Plasterboard			No	
Ceiling penetra	tions					
Location	Numb	per Type	Width (mm)	Length (mm)	Seal/ unsealed	
Bath	1	Exhaust Fans	200	200	Sealed	
Ens	1	Exhaust Fans	200	200	Sealed	
Kitchen/Living	1	Exhaust Fans	200	200	Sealed	
Ceiling fans						

Date of Certificate: 6 Aug 2017

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium
Slab:Slab - Suspended Slab	0.0	light

Certificate Number: TZ2FFANCV4 Date of Certificate: 6 Aug 2017

★ Star rating: 6.1



Additional information

Explanatory notes

About this report

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Contact

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Certificate Number: ITQTUILTL7 Date of Certificate: 6 Aug 2017 ★ Star rating: 7.7



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: 1.02, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 67 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS

Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Insulation:

Conditioned: 59.3
Unconditioned: 4.3
Garage: TOTAL: 63.6

Annual thermal performance loads (MJ/m²)

 Heating:
 54.7

 Cooling:
 12.3

 TOTAL:
 67

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

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.

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https://www.fr5.com.au/QRCodeLanding?PublicId=ITQTUILTL7

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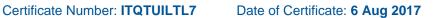


Building Features

Window ID	Window type					U-value	SHGC
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E -Clear						0.52
ALM-005-03 A	Aluminium A DO	Aluminium A DG Argon Fill High Solar Gain low-E -Clear					0.47
Windows sched		Hadada (a.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0	7		0
Windows scheo	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shad
Window ID		Height (mm)	Width (mm)	Orientation SW	Zone name Bedroom 1		Outdoor shac
Window ID ALM-006-03 A	Window no.		. ,				
	Window no.	2700	1800	SW	Bedroom 1		

Roof winde	ows and skylight type and performance value	
ID	Window type	U-value SHGC
Roof winde	ow and skylight schedule	
ID	Roof window/ skylight no. Area (m²) Orientation Zone name	Outdoor Indoor shade/ diffuser

Туре	Insulation				Wall wrap
1 : FR5 - Fibro Clad Framed					No
2 : VA - AFS162 FINSH 3 WA06c	Polystyren	e expanded (l	k = 0.039) (R0.6)		Yes
3 : VA - AFS162 party wall 1 WA08a					No
4 : VA - AFS162 internal 3 WA07c	Glass fibre	Glass fibre batt: R1.5 (R1.5)			No
5 : VA - AFS162 party wall 4 WA08d	Glass fibre	batt: R1.5 (R	1.5)		No
6 : VA - AFS162 party wall 2 WA08b	Glass fibre	batt ($k = 0.04$	14 density = 12 kg/m3	3) (R2.7)	No
External wall schedule Wall type	Area (m²)	Orientation	Zone name	Fived shade	Faves
Wall type	Area (m²) 5.3	Orientation SW	Zone name Bedroom 1	Fixed shade Yes	Eaves
Wall type 1 : FR5 - Fibro Clad Framed					
Wall type 1 : FR5 - Fibro Clad Framed 2 : VA - AFS162 FINSH 3 WA06c	5.3	SW	Bedroom 1	Yes	No
External wall schedule Wall type 1: FR5 - Fibro Clad Framed 2: VA - AFS162 FINSH 3 WA06c 3: VA - AFS162 party wall 1 WA08a 2: VA - AFS162 FINSH 3 WA06c	5.3	SW	Bedroom 1 Bedroom 1	Yes Yes	No No







Building Features

4 : VA - AFS162 internal 3 WA07c	4.1	NE	Bath	No No	No
5 : VA - AFS162 party wall 4 WA08d	3	NE	Bath	No	No
5 : VA - AFS162 party wall 4 WA08d	7.9	NE	Ens	No	No
6 : VA - AFS162 party wall 2 WA08b	4.4	NW	Ens	No	No
1 : FR5 - Fibro Clad Framed	6.7	SW	Kitchen/Living	Yes	Yes
2 : VA - AFS162 FINSH 3 WA06c	3.3	SW	Kitchen/Living	Yes	Yes
3 : VA - AFS162 party wall 1 WA08a	17.6	SE	Kitchen/Living	No	No
4: VA - AFS162 internal 3 WA07c	11.9	NE	Kitchen/Living	No No	No
3 : VA - AFS162 party wall 1 WA08a	4.2	NW	Wir	No	No

Internal wall type

Туре	Area (m²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	74	Glass fibre batt: R1.5 (R1.5)
2 : FR5 - Internal Plasterboard Stud Wall	20.4	
3 : VA - 92mm Internal Plasterboard WA11a	42.4	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)

Floors					
Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	SuspSlab	10.4	Enclosed	0.0	Carpet
Bedroom 2	SuspSlab	10.3	Enclosed	0.0	Carpet
Bath	SuspSlab	4.3	Enclosed	0.0	Tiles
Ens	SuspSlab	4.8	Enclosed	0.0	Tiles
Kitchen/Living	SuspSlab	25.3	Enclosed	0.0	floattimber
Entry/Corridor	SuspSlab	5.3	Enclosed	0.0	floattimber
Wir	SuspSlab	3.4	Enclosed	0.0	Carpet

Ceiling type					
Location	Material		A	dded insulation	Roof space above
Ceiling penetra	tions				
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Bath	1	Exhaust Fans	200	200	Sealed
Ens	1	Exhaust Fans	200	200	Sealed
Kitchen/Living	4	Exhaust Fans	200	200	Sealed

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★ Star rating: 7.7

Building Features

Certificate Number: ITQTUILTL7

Ceiling fans	
Location	Number Diameter (mm)

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium

Certificate Number: ITQTUILTL7 Date of Certificate: 6 Aug 2017 ★ Star rating: 7.7



Additional information

Explanatory notes

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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.

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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.

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Disclaimer

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Contact

Certificate Number: C809Q13JCU Date of Certificate: 6 Aug 2017 ★ Star rating: 7.1



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: 1.03, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

7.1 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 89.3 MJ/m² For more information on your dwelling's rating see: WWW.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Insulation: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS
Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Conditioned: 87.9
Unconditioned: 4.2
Garage: TOTAL: 92.1

Annual thermal performance loads (MJ/m²)

Heating: **71.2**Cooling: **18.1**TOTAL: **89.3**

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

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.

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



https://www.fr5.com.au/QRCodeLanding?PublicId=C809Q13JCU

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Window ID	Window type						SHGC
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E -Clear						0.52
ALM-005-03 A	Aluminium A DG Argon Fill High Solar Gain low-E -Clear 4.1						0.47
Windows sched	dule						
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shade
ALM-006-03 A	W1	2700	3000	SW	Bedroom 1		No
ALM-005-03 A	W3	1000	1500	NW	Bedroom 2		No
ALM-006-03 A	W2	2700	750	NW	Bedroom 2		No
ALM-006-03 A	W2	2700	750	SW	Bedroom 2		No
ALM-005-03 A	W4	1000	1500	NW	Bedroom 3		No
ALM-006-03 A	W7	1750	3000	NE	Kitchen/Living		No
ALM-006-03 A	W6	2700	3500	NE	Kitchen/Living		No
ALM-006-03 A	W3	2700	3	NW	Kitchen/Living		No
ALM-006-03 A	W5	 1750	2700	NW	Kitchen/Living		No

ID	Window type		U-value	SHGC
Roof window	w and skylight schedule			
			Outdoor	Indoor sh

Туре	Insulation	Wall wrap
1 : VA - AFS162 party wall 1 WA08a		No
2 : VA - AFS162 FINSH 3 WA06c	Polystyrene expanded (k = 0.039) (R0.6)	Yes
3 : VA - AFS162 FINSH 1 WA06a	Polystyrene expanded (k = 0.039) (R0.6)	Yes
4 : FR5 - Fibro Clad Framed		No
5 : VA - AFS200 FINSH 2 WA05b	Polystyrene expanded (k = 0.039) (R0.6)	Yes
6 : VA - AFS162 party wall 2 WA08b	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No
7 : VA - AFS162 party wall 4 WA08d	Glass fibre batt: R1.5 (R1.5)	No
8 : VA - AFS162 internal 1 WA07a	Polystyrene expanded (k = 0.039) (R0.6)	Yes

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Building Features

Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
1 : VA - AFS162 party wall 1 WA08a	9.6	SE	Bedroom 1	No	No
2 : VA - AFS162 FINSH 3 WA06c	0.6	SW	Bedroom 1	Yes	No
3 : VA - AFS162 FINSH 1 WA06a	0.7	SW	Bedroom 1	Yes	No
4 : FR5 - Fibro Clad Framed	8.3	SW	Bedroom 1	Yes	No
3 : VA - AFS162 FINSH 1 WA06a	1.5	SW	Bedroom 1	Yes	No
5 : VA - AFS200 FINSH 2 WA05b	7.3	NW	Bedroom 2	No	Yes
4 : FR5 - Fibro Clad Framed	2.1	NW	Bedroom 2	No	Yes
4 : FR5 - Fibro Clad Framed	2.1	SW	Bedroom 2	Yes	Yes
2 : VA - AFS162 FINSH 3 WA06c	5.6	SW	Bedroom 2	Yes	Yes
5 : VA - AFS200 FINSH 2 WA05b	8.5	NW	Bedroom 3	No	No
5 : VA - AFS200 FINSH 2 WA05b	1	NW	Bedroom 3	No	Yes
6: VA - AFS162 party wall 2 WA08b	2.9	SE	Bath	No	No
1 : VA - AFS162 party wall 1 WA08a	11.2	SE	Kitchen/Living	No	No
3 : VA - AFS162 FINSH 1 WA06a	12.2	NE	Kitchen/Living	Yes	Yes
4 : FR5 - Fibro Clad Framed	9.5	NE	Kitchen/Living	Yes	Yes
5 : VA - AFS200 FINSH 2 WA05b	9.4	NW	Kitchen/Living	No	Yes
5 : VA - AFS200 FINSH 2 WA05b	3.8	NW	Kitchen/Living	No	No
1 : VA - AFS162 party wall 1 WA08a	3.1	SE	Ens	No	No
6 : VA - AFS162 party wall 2 WA08b	2.4	SE	Ens	No	No
1 : VA - AFS162 party wall 1 WA08a	8.6	NE	Entry	No	No
7 : VA - AFS162 party wall 4 WA08d	11	SW	Entry	No	No
8 : VA - AFS162 internal 1 WA07a	3.3	SE	Entry	No	No

Internal wall type

Туре	Area (m²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	29.6	
2 : VA - 92mm Internal Plasterboard WA11a	57.4	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)
3 : VA - 64mm Internal Plasterboard WA10a	74.2	Glass fibre batt: R1.5 (R1.5)

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	SuspSlab	13.4	Enclosed	0.0	Carpet
Bedroom 2	SuspSlab	3.3	Enclosed	0.0	Carpet







Bedroom 2	SuspSlab	6.7	Enclosed	0.0	Carpet
Bedroom 3	SuspSlab	3.4	Enclosed	0.0	Carpet
Bedroom 3	SuspSlab	6.7	Enclosed	0.0	Carpet
Bath	SuspSlab	4.2	Enclosed	0.0	Tiles
Kitchen/Living	SuspSlab	19.2	Enclosed	0.0	floattimber
Kitchen/Living	SuspSlab	19.7	Enclosed	0.0	floattimber
Corridor	SuspSlab	4.5	Enclosed	0.0	floattimber
Ens	SuspSlab	6.1	Enclosed	0.0	Tiles
Entry	SuspSlab	4.7	Enclosed	0.0	floattimber

Location	Material			Added insulation	Roof space above	
Bedroom 2	Plasterb	Plasterboard			No	
Bedroom 3	Plasterb	Plasterboard			No	
Kitchen/Living	Plasterb	Plasterboard			No	
Ceiling penetra		Type	Width (mm)	Length (mm)	Seal/ unsealed	
		Туре	Width (mm)	Length (mm)	Seal/ unsealed	
Location	Number	Type Exhaust Fans	Width (mm)	Length (mm)	Seal/ unsealed Sealed	
Location Bath	Number				Seal/ unsealed Sealed Sealed	
	Number 1	Exhaust Fans	200	200	Sealed	

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium
Slab:Slab - Suspended Slab	0.0	medium

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Certificate Number: C809Q13JCU Date of Certificate: 6 Aug 2017

★ Star rating: 7.1



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.

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Contact

Certificate Number: LZ93O6Q4XG Date of Certificate: 6 Aug 2017 ★ Star rating: 7.2



Assessor details

Accreditation

VIC/BDAV/10/1044 number: Name: **RUJUN RAO** Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: 0433283009

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

BDAV AAO:

Overview

Dwelling details

1.04, 1 VINE STREET Address:

HEIDELBERG Suburb:

State: VIC Postcode: 3084 Class 2 Type: **New Home** NCC Class:

Lot/DP **NatHFRS** number: climate zone: 62

Exposure: suburban

ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 85.6 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Insulation: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

TOTAL:

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL:

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Conditioned: 76.4 Unconditioned: 3.1 Garage: TOTAL: 79.5

Annual thermal performance loads (MJ/m²)

66.2 Heating: Cooling: 19.4

85.6

Plan documents

Plan ref/date: 1.8.2017 Prepared by: **ArdenSiena**

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.

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



ing?PublicId=LZ93O6Q4XG

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Building Features

Certificate Number: LZ93O6Q4XG

Window ID	Window type						SHGC
ALM-006-03 A	Aluminium B D0	Aluminium B DG Argon Fill High Solar Gain low-E -Clear					
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shade
ALM-006-03 A	W2	1000	2500	NE	Bedroom 2		No
AL MA 000 00 A	W2	2700	1480	SE	Kitchen/Living		No
ALM-006-03 A				NE	Kitchen/Living		No
ALM-006-03 A ALM-006-03 A	W3	2700	2200	NE	Ritchen/Living		140
	W3 W4	2700 2700	2200 3660	NE NE	Kitchen/Living		No

Roof window	ws and skylight type and performance value	
ID	Window type	U-value SHGC
Roof window	w and skylight schedule	
ID	Roof window/ skylight no. Area (m²) Orientation Zone name	Outdoor shade/ diffuser

Туре	Insulation				Wall wra
1 : VA - AFS162 FINSH 1 WA06a	Polystyren	e expanded (l	k = 0.039) (R0.6)		Yes
2 : VA - AFS162 FINSH 2 WA06b	Polystyrene expanded (k = 0.039) (R0.6)			Yes	
3 : VA - AFS162 party wall 1 WA08a					No
4 : VA - AFS162 internal 1 WA07a	Polystyrene expanded (k = 0.039) (R0.6)				
5 : VA - Internal to lift	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)			No	
6 : FR5 - Fibro Clad Framed	S : FR5 - Fibro Clad Framed				
External wall schedule Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
Wall type	Area (m²) 3.5	Orientation NE	Zone name Bedroom 2	Fixed shade No	Eaves No
Wall type 1: VA - AFS162 FINSH 1 WA06a					
Wall type 1 : VA - AFS162 FINSH 1 WA06a 2 : VA - AFS162 FINSH 2 WA06b	3.5	NE	Bedroom 2	No	No
Wall type	3.5	NE NE	Bedroom 2 Bedroom 2	No Yes	No No







Building Features

4 : VA - AFS162 internal 1 WA07a	19.7	SW	Kitchen/Living	No	No
5 : VA - Internal to lift	8	SE	Kitchen/Living	No	No
5 : VA - Internal to lift	0.9	SW	Kitchen/Living	No	No
6 : FR5 - Fibro Clad Framed	4.1	SE	Kitchen/Living	Yes	Yes
6 : FR5 - Fibro Clad Framed	16.5	NE	Kitchen/Living	Yes	Yes
1 : VA - AFS162 FINSH 1 WA06a	2.6	SE	Kitchen/Living	Yes	No
1 : VA - AFS162 FINSH 1 WA06a	0.9	NE	Kitchen/Living	Yes	No
1 : VA - AFS162 FINSH 1 WA06a	1.7	NE	Kitchen/Living	Yes	No
2 : VA - AFS162 FINSH 2 WA06b	1.2	NE	Kitchen/Living	Yes	No No
1 : VA - AFS162 FINSH 1 WA06a	1.7	NE	Kitchen/Living	Yes	No
4 : VA - AFS162 internal 1 WA07a	11	SW	Corridor	No	No
2 : VA - AFS162 FINSH 2 WA06b	3.5	NW	Bedroom 1	Yes	No
3 : VA - AFS162 party wall 1 WA08a	4.6	NW	Bedroom 1	No	No
4 : VA - AFS162 internal 1 WA07a	4.1	SW	Bedroom 1	No No	No
1 : VA - AFS162 FINSH 1 WA06a	4.5	NE	Bedroom 1	<u>No</u>	No
1 : VA - AFS162 FINSH 1 WA06a	4.5	NE	Bedroom 1	Yes	No
2 : VA - AFS162 FINSH 2 WA06b	3.1	NE	Bedroom 1	Yes	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	74.6	Glass fibre batt: R1.5 (R1.5)
2 : VA - 92mm Internal Plasterboard WA11a	53.8	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)
3 : FR5 - Internal Plasterboard Stud Wall	5.4	

Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 2	SuspSlab	2.5	Enclosed	0.0	Carpet
Bedroom 2	SuspSlab	5.7	Enclosed	0.0	Carpet
Bedroom 2	SuspSlab	4.3	Elevated	1.5	Carpet
Bath	SuspSlab	3.1	Enclosed	0.0	Tiles
Ens	SuspSlab	6.7	Enclosed	0.0	Tiles
Kitchen/Living	SuspSlab	19.5	Enclosed	0.0	floattimbe
Kitchen/Living	SuspSlab	15.6	Enclosed	0.0	floattimber
Kitchen/Living	SuspSlab	1.8	Elevated	1.5	floattimbe







Building Features

Certificate Number: LZ93O6Q4XG

Corridor	SuspSlab	4.1	Enclosed	0.0	floattimber
Bedroom 1	SuspSlab	3.6	Enclosed	0.0	Carpet
Bedroom 1	SuspSlab	7.1	Enclosed	0.0	Carpet
Bedroom 1	SuspSlab	5.6	Elevated	1.5	Carpet

Location	Material			Added insulation	Roof space abov
Bedroom 2	Plasterb	oard		5.0	No
Bedroom 2	Plasterb	Plasterboard			No
Kitchen/Living	Plasterb	Plasterboard			No
Kitchen/Living	Plasterb	Plasterboard			No
Bedroom 1	Plasterb	oard		5.0	No
Bedroom 1	Plasterb	oard		5.0	No
Calling non-te-					
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Location		Type Exhaust Fans	Width (mm)	Length (mm)	Seal/ unsealed Sealed
Location Bath	Number				
Location Bath Ens	Number 1	Exhaust Fans	200	200	Sealed
	Number 1 1	Exhaust Fans Exhaust Fans	200	200	Sealed Sealed

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium
Slab:Slab - Suspended Slab	0.0	light

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Certificate Number: **LZ93O6Q4XG** Date of Certificate: **6 Aug 2017**

★ Star rating: 7.2



Additional information

Explanatory notes

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Contact

Certificate Number: O92ZUPNE0Q Date of Certificate: 6 Aug 2017 ★ Star rating: 5.2



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: 2.01, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

5.2 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 157 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS

Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Insulation:

Conditioned: 67.3
Unconditioned: 4.1
Garage: TOTAL: 71.4

Annual thermal performance loads (MJ/m²)

Heating: 136.4 Cooling: 20.6 TOTAL: 157

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

Window selection - default windows only

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



https://www.fr5.com.au/QRCodeLanding?PublicId=O92ZUPNE0Q







Window ID	Window type					U-value	SHGC
ALM-006-03 A	Aluminium B D0	G Argon Fill High S	Solar Gain low-	E -Clear		4.1	0.52
Windows sche	dule						
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shade
ALM-006-03 A	W05	2700	2100	SW	Bedroom 1		No
ALM-006-03 A	W01	2700	2200	SE	Bedroom 2		No
	W02	2700	3060	SE	Kitchen/Living		No
ALM-006-03 A	VVU2						
ALM-006-03 A ALM-006-03 A	W04	2700	2200	SW	Kitchen/Living		No

Roof window	s and skylight type and pe	rformance v	alue			
ID	Window type				U-value	SHGC
Roof window	and skylight schedule					
ID	Roof window/ skylight no	Area (m²)	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser

Туре	Insulation				Wall wrap
1 : VA - AFS162 FINSH 2 WA06b	Polystyren	e expanded (k = 0.039) (R0.6)		Yes
2 : FR5 - Fibro Clad Framed					No
3 : VA - AFS162 party wall 1 WA08a					No
4 : VA - AFS162 internal 1 WA07a	Polystyrene expanded (k = 0.039) (R0.6)				
5 : VA - AFS162 FINSH 1 WA06a	Polystyrene expanded (k = 0.039) (R0.6)			Yes	
6 : VA - AFS162 party wall 2 WA08b	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)				No
7 : VA - AFS162 party wall 4 WA08d	Glass fibre	batt: R1.5 (R	1.5)		No
External wall schedule Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
1 : VA - AFS162 FINSH 2 WA06b	3.3	SW	Bedroom 1	Yes	No
2 : FR5 - Fibro Clad Framed	5.7	SW	Bedroom 1	Yes	No
3 : VA - AFS162 party wall 1 WA08a	16.1	NW	Bedroom 1	No	No
4 : VA - AFS162 internal 1 WA07a	 11	NE	Bedroom 2	Yes	Yes



★ Star rating: **5.2**



Building Features

2 : FR5 - Fibro Clad Framed	6	SE	Bedroom 2	Yes	Yes
5 : VA - AFS162 FINSH 1 WA06a	2.1	SE	Bedroom 2	Yes	Yes
2 : FR5 - Fibro Clad Framed	8.3	SE	Kitchen/Living	Yes	Yes
5 : VA - AFS162 FINSH 1 WA06a	1.8	SE	Kitchen/Living	Yes	Yes
4 : VA - AFS162 internal 1 WA07a	4.5	NE	Kitchen/Living	Yes	Yes
5 : VA - AFS162 FINSH 1 WA06a	1.6	SW	Kitchen/Living	Yes	Yes
2 : FR5 - Fibro Clad Framed	6	SW	Kitchen/Living	Yes	Yes
5 : VA - AFS162 FINSH 1 WA06a	2.2	SW	Kitchen/Living	Yes	Yes
2 : FR5 - Fibro Clad Framed	6.4	SW	Kitchen/Living	Yes	Yes
4 : VA - AFS162 internal 1 WA07a	5.7	NE	Ens	Yes	Yes
6 : VA - AFS162 party wall 2 WA08b	3.1	NW	Ens	No	No
7 : VA - AFS162 party wall 4 WA08d	5.7	NW	Ens	No	No
4 : VA - AFS162 internal 1 WA07a	3.5	NE	Bath	Yes	Yes
4: VA - AFS162 internal 1 WA07a	4	SE	Bath	Yes	Yes
4 : VA - AFS162 internal 1 WA07a	2.5	SE	Bath	Yes	Yes

Internal wall type

Туре	Area (m²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	84.2	Glass fibre batt: R1.5 (R1.5)
2 : FR5 - Internal Plasterboard Stud Wall	13.6	
3 : VA - 92mm Internal Plasterboard WA11a	17.4	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	SuspSlab	13.2	Enclosed	0.0	Carpet
Bedroom 1	SuspSlab	4.9	Enclosed	0.0	Carpet
Bedroom 2	SuspSlab	4.1	Enclosed	0.0	Carpet
Bedroom 2	SuspSlab	7.5	Enclosed	0.0	Carpet
Kitchen/Living	SuspSlab	13.3	Enclosed	0.0	floattimber
Kitchen/Living	SuspSlab	17.3	Enclosed	0.0	floattimber
Ens	SuspSlab	6.9	Enclosed	0.0	Tiles
Bath	SuspSlab	4.1	Enclosed	0.0	Tiles

Ceiling type

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Building Features

Certificate Number: O92ZUPNE0Q

Location	Materi	al	F	Added insulation	Roof space above	
Bedroom 1	Plaste	rboard	5	5.0	No	
Bedroom 2	Plaste	rboard	5	5.0	No	
Kitchen/Living	Plaste	rboard	5	5.0	No	
Ceiling penetra	tions					
Location	Numbe	er Type	Width (mm)	Length (mm)	Seal/ unsealed	
Location Kitchen/Living	Number 1	Type Exhaust Fans	Width (mm)	Length (mm)	Seal/ unsealed Sealed	
Location Kitchen/Living Ens			, ,			

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium
Slab:Slab - Suspended Slab	0.0	light

Certificate Number: **O92ZUPNE0Q** Date of Certificate: **6 Aug 2017**

★ Star rating: 5.2



Additional information

Explanatory notes

About this report

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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.

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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

Certificate Number: **54H4W2EAE1** Date of Certificate: **6 Aug 2017** ★ Star rating: **5.8**



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: 2.02, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

5.8 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 133.6 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS
Floor: AS PER WORKING DRAWINGS

Insulation: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS
Floor: AS PER WORKING DRAWINGS

Glazing: ALUMINIUM

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Conditioned: 77.2
Unconditioned: 3.5
Garage: TOTAL: 80.7

Annual thermal performance loads (MJ/m²)

leating:

Heating: 118.3 Cooling: 15.3 TOTAL: 133.6

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

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.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=54H4W2EAE1

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Building Features

Certificate Number: 54H4W2EAE1

Window ID	Window type						SHGC
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E -Clear					4.1	0.52
ALM-005-03 A	Aluminium A DC	G Argon Fill High S	Solar Gain low-	E -Clear		4.1	0.47
Windows sched	dule						
Windows scheo	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shace
		Height (mm)	Width (mm)	Orientation SW	Zone name Kitchen / Living		Outdoor shad
Window ID	Window no.		. ,				

Roof windo	ows and skylight type and performance value	
ID	Window type	U-value SHGC
Roof windo	ow and skylight schedule	
ID	Roof window/ skylight no. Area (m²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser

External wall type					
Туре	Insulation				Wall wra
1 : VA - AFS162 party wall 1 WA08a					No
2 : VA - AFS162 party wall 2 WA08b	Glass fibre	batt (k = 0.04	14 density = 12 kg/m3)	(R2.7)	No
3 : VA - AFS162 internal 1 WA07a	Polystyrene expanded (k = 0.039) (R0.6)				
4 : FR5 - Fibro Clad Framed					No
5 : VA - AFS162 FINSH 2 WA06b	Polystyrene expanded (k = 0.039) (R0.6)				
6 : VA - AFS162 FINSH 1 WA06a	Polystyrene expanded (k = 0.039) (R0.6)				
7 : VA - AFS162 party wall 3 WA08c	Glass fibre	batt: R1.5 (R	1.5)		No
External wall schedule					
Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
1 : VA - AFS162 party wall 1 WA08a	22.1	SE	Kitchen / Living	No	No
2 : VA - AFS162 party wall 2 WA08b	2.9	SE	Kitchen / Living	No	No
3 : VA - AFS162 internal 1 WA07a	3.1	NE	Kitchen / Living	No	No
2 : VA - AFS162 party wall 2 WA08b	5.8	NE	Kitchen / Living	No	No





★ Star rating: **5.8**

4 : FR5 - Fibro Clad Framed	8.7	SW	Kitchen / Living	No No	No_
5 : VA - AFS162 FINSH 2 WA06b	2.1	SW	Kitchen / Living	Yes	No
6 : VA - AFS162 FINSH 1 WA06a	7.2	SW	Bedroom 2	Yes	No
6 : VA - AFS162 FINSH 1 WA06a	0.6	SW	Bedroom 1	Yes	No
6 : VA - AFS162 FINSH 1 WA06a	6.1	SW	Bedroom 1	Yes	No
6 : VA - AFS162 FINSH 1 WA06a	2.2	SW	Bedroom 1	Yes	Yes
6 : VA - AFS162 FINSH 1 WA06a	8.8	NW	Bedroom 1	No	No
7 : VA - AFS162 party wall 3 WA08c	4.4	NW	Ens	No	No
2 : VA - AFS162 party wall 2 WA08b	11.4	NE	Ens	No	No
1 : VA - AFS162 party wall 1 WA08a	3.9	NW	Bath	No	No
3 : VA - AFS162 internal 1 WA07a	0.8	NE	Bath	No	No
1 : VA - AFS162 party wall 1 WA08a	5.8	NE	Bath	No	No
1 : VA - AFS162 party wall 1 WA08a	4.6	NW	Wir	No	No

Туре	Area (m ²)	Insulation
1 : VA - 64mm Internal Plasterboard WA10a	49.4	Glass fibre batt: R1.5 (R1.5)
2 : VA - 92mm Internal Plasterboard WA11a	25.4	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)

2 : VA - 92mm Internal Plasterboard WA11a	 25.4	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)
2. VA - 92IIIII IIILEITIAI FIASIEIDOAIU WATTA	25.4	Glass libre batt ($K = 0.044$ density = 12 kg/llis) ($K2.1$)
3 : FR5 - Internal Plasterboard Stud Wall	64.4	

Floors					
Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Kitchen / Living	SuspSlab	39.6	Enclosed	0.0	floattimber
Kitchen / Living	SuspSlab	5.1	Enclosed	0.0	floattimber
Bedroom 2	SuspSlab	6.7	Enclosed	0.0	Carpet
Bedroom 2	SuspSlab	3.8	Enclosed	0.0	Carpet
Bedroom 1	SuspSlab	6.7	Enclosed	0.0	Carpet
Bedroom 1	SuspSlab	4.9	Enclosed	0.0	Carpet
Ens	SuspSlab	6.6	Enclosed	0.0	Tiles
Bath	SuspSlab	3.5	Enclosed	0.0	Tiles
Wir	SuspSlab	3.9	Enclosed	0.0	Carpet

Ceiling type			
Location	Material	Added insulation	Roof space above







Building Features

Certificate Number: 54H4W2EAE1

Plaster			.0	No
	board	0	.0	No
Plaster	board	5	.0	No
Plaster	board	5	.0	No
Numbe	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Numbe	Type	Width (mm)	Length (mm)	Seal/ unsealed
_ 1	Exhaust Fans	200		Sealed
_ 1	Exhaust Fans	200	200	Sealed
1	Exhaust Fans	200	200	Sealed
	Plaster Number	Number Type 1 Exhaust Fans 1 Exhaust Fans	Plasterboard 5 Number Type Width (mm) 1 Exhaust Fans 200 1 Exhaust Fans 200	Plasterboard 5.0 Number Type Width (mm) Length (mm) 1 Exhaust Fans 200 200 1 Exhaust Fans 200 200

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium
Slab:Slab - Suspended Slab	0.0	light

Certificate Number: 54H4W2EAE1 Date of Certificate: 6 Aug 2017

★ Star rating: 5.8



Additional information

Explanatory notes

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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

Certificate Number: IEI6M74SWR Date of Certificate: 6 Aug 2017 ★ Star rating: 5.8



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: 2.03, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

5.8 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 132.2 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS Floor: AS PER WORKING DRAWINGS

Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS

Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 3 Unsealed: 0 TOTAL: 3

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Insulation:

Conditioned: 86.9
Unconditioned: 3.2
Garage: TOTAL: 90.1

Annual thermal performance loads (MJ/m²)

Heating: 98
Cooling: 34.2
TOTAL: 132.2

Plan documents

Plan ref/date: 1.8.2017
Prepared by: ArdenSiena

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.

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★ Star rating: **5.8**

Window ID	Window type					U-value	SHGC
ALM-006-03 A	Aluminium B D0	G Argon Fill High S	Solar Gain low-	E -Clear		4.1	0.52
ALM-005-03 A	Aluminium A DO	G Argon Fill High S	Solar Gain low-	E -Clear		4.1	0.47
Windows sched	dule						
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shade
ALM-006-03 A	W5	2700	1150	NE	Kitchen / Living		No
ALM-006-03 A	W4	2700	2203	NW	Kitchen / Living		No
ALM-006-03 A	W7	1750	4880	NE	Kitchen / Living		No
ALM-006-03 A	W6	2700	4390	NE	Kitchen / Living		No
ALM-005-03 A	W2	1750	800	NW	Ens		No
ALM-005-03 A	W03	1750	2000	SW	Bedroom 2		No
ALM-006-03 A	W8	1750	4490	NE	Entry		No
ALM-006-03 A	W3	2700	3106	NW	Bedroom 1		No

Roof windows	and skylight type and performance value	
ID	Window type	U-value SHGC
Roof window a	and skylight schedule	
ID	Roof window/ skylight no. Area (m²) Orientation Zone name	Outdoor Indoor shade/ diffuser

Туре	Insulation	Wall wrap
1 : FR5 - Fibro Clad Framed		No
2 : VA - Fibro Clad Framed+R2.7+gap	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No
3 : VA - AFS200 FINSH 1 WA05a	Polystyrene expanded (k = 0.039) (R0.6)	Yes
4 : VA - AFS162 party wall 1 WA08a		No
5 : VA - AFS162 party wall 3otherside	Glass fibre batt: R1.5 (R1.5)	No
6: VA - AFS162 party wall other side	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No
7 : VA - AFS162 internal 1 WA07a	Polystyrene expanded (k = 0.039) (R0.6)	Yes
8 : VA - AFS200 FINSH 2 WA05b	Polystyrene expanded (k = 0.039) (R0.6)	Yes
9 : VA - AFS162 FINSH 1 WA06a	Polystyrene expanded (k = 0.039) (R0.6)	Yes
10 : VA - AFS162 FINSH 4 WA06d	Polystyrene expanded (k = 0.039) (R0.6)	Yes

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Certificate Number: IEI6M74SWR

★ Star rating: 5.8

Building Features

Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Fibro Clad Framed	3.8	NE	Kitchen / Living	Yes	Yes
1 : FR5 - Fibro Clad Framed	5.4	NW	Kitchen / Living	Yes	Yes
2 : VA - Fibro Clad Framed+R2.7+gap	1.2	NW	Kitchen / Living	Yes	Yes
3 : VA - AFS200 FINSH 1 WA05a	2.5	NW	Kitchen / Living	Yes	No
4 : VA - AFS162 party wall 1 WA08a	3.6	SE	Kitchen / Living	No	No
5 : VA - AFS162 party wall 3otherside	5.2	SE	Kitchen / Living	No	No
6 : VA - AFS162 party wall other side	9.6	SW	Kitchen / Living	No	No
4 : VA - AFS162 party wall 1 WA08a	2.1	SW	Kitchen / Living	No	No
7 : VA - AFS162 internal 1 WA07a	2.2	SE	Kitchen / Living	No	No
2 : VA - Fibro Clad Framed+R2.7+gap	13.4	NE	Kitchen / Living	Yes	No
1 : FR5 - Fibro Clad Framed	12	NE	Kitchen / Living	Yes	Yes
8 : VA - AFS200 FINSH 2 WA05b	3.1	NW	Kitchen / Living	Yes	Yes
3 : VA - AFS200 FINSH 1 WA05a	4.2	NW	Ens	Yes	Yes
9 : VA - AFS162 FINSH 1 WA06a	6	SW	Ens	Yes	Yes
10 : VA - AFS162 FINSH 4 WA06d	2.3	NW	Ens	Yes	No
10 : VA - AFS162 FINSH 4 WA06d	3.3	SW	Ens	Yes	No
4 : VA - AFS162 party wall 1 WA08a	9.4	SE	Bedroom 2	No	No
9 : VA - AFS162 FINSH 1 WA06a	5.3	SW	Bedroom 2	Yes	Yes
10 : VA - AFS162 FINSH 4 WA06d	2.9	SW	Bedroom 2	Yes	No
7 : VA - AFS162 internal 1 WA07a	3.3	SE	Entry	Yes	No
2 : VA - Fibro Clad Framed+R2.7+gap	12.3	NE	Entry	Yes	No
4 : VA - AFS162 party wall 1 WA08a	5.7	SW	Entry	No	No
11 : VA - AFS162 party wall 2 WA08b	6.5	SW	Bath	No	No
4 : VA - AFS162 party wall 1 WA08a	3.5	SE	Bath	No	No
1 : FR5 - Fibro Clad Framed	7.8	NW	Bedroom 1	Yes	Yes
Internal wall type					

Floors

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★ Star rating: **5.8**



Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen / Living	SuspSlab	21.1	Enclosed	0.0	floattimber
Kitchen / Living	SuspSlab	26.4	Enclosed	0.0	floattimber
Ens	SuspSlab	8.2	Enclosed	0.0	Carpet
Bedroom 2	SuspSlab	3.1	Enclosed	0.0	Carpet
Bedroom 2	SuspSlab	7.4	Enclosed	0.0	Carpet
Entry	SuspSlab	2.8	Enclosed	0.0	Tiles
Entry	SuspSlab	2.8	Enclosed	0.0	floattimbe
Bath	SuspSlab	3.2	Enclosed	0.0	Tiles
Wir	SuspSlab	4	Enclosed	0.0	Carpet
Bedroom 1	SuspSlab	11.1	Enclosed	0.0	Carpet

Location	Materia	I		Added insulation	Roof space abov
Kitchen / Living	Plasterl	poard		5.0	No
Ens	Plasterl	poard		5.0	No
Bedroom 2	Plasterl	poard		5.0	No
Entry	Plasterl	poard		5.0	No
Bedroom 1	Plasterl	board		5.0	No
Ceiling penetra	tions				
Ceiling penetra Location	tions Numbe	г Туре	Width (mm)	Length (mm)	Seal/ unsealed
Location		r Type Exhaust Fans	Width (mm)	Length (mm)	Seal/ unsealed Sealed
Location	Numbe		, ,		
Location Kitchen / Living	Numbe	Exhaust Fans	200	200	Sealed
Location Kitchen / Living Ens	Numbe 1 1	Exhaust Fans Exhaust Fans	200	200	Sealed Sealed

Roof type		
Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium
Slab:Slab - Suspended Slab	0.0	light

Certificate Number: IEI6M74SWR Date of Certificate: 6 Aug 2017 ★ Star rating: 5.8



Additional information

Explanatory notes

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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.

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Contact

Certificate Number: VAEYMMTVK9 Date of Certificate: 6 Aug 2017 ★ Star rating: 5.3



Assessor details

Accreditation

number: VIC/BDAV/10/1044
Name: RUJUN RAO
Organisation: rujun rao

Email: starating@yahoo.com.au

Phone: **0433283009**

Declaration No potential conflicts of interest to

of interest: declare

Software: FirstRate5: 5.2.6 (3.13)

AAO: BDAV

Overview

Dwelling details

Address: 3.01, 1 VINE STREET

Suburb: **HEIDELBERG**

State: VIC Postcode: 3084
Type: New Home NCC Class: Class 2

Lot/DP NatHERS number: - climate zone: **62**

Exposure: suburban

5.3 The more stars the more energy efficient NATIONWIDE HOUSE ENERGY RATING SCHEME Predicted annual energy load for heating and cooling based on standard occupancy assumptions 150.4 MJ/m² For more information on your dwelling's rating see: www.nathers.gov.au

Key construction and insulation materials

(see following pages for details)

Construction: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS
Floor: AS PER WORKING DRAWINGS

Insulation: Wall: AS PER WORKING DRAWINGS

Roof: AS PER WORKING DRAWINGS
Floor: AS PER WORKING DRAWINGS

Glazing: **ALUMINIUM**

AS PER WORKING DRAWINGS

Ceiling penetrations

(see following pages for details)

Sealed: 0
Unsealed: 0
TOTAL: 0

Principal downlight type:

**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.

No downlights modelled

Net floor area (m²)

Conditioned: 146.3 Unconditioned: 11.4 Garage: -TOTAL: 157.7

Annual thermal performance loads (MJ/m²)

(IVIJ/m⁻)

Heating: 125.6 Cooling: 24.8 TOTAL: 150.4

Plan documents

Plan ref/date: 13.7.2017
Prepared by: ArdenSiena

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.

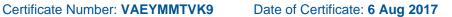
If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.

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



https://www.fr5.com.au/QRCodeLanding?PublicId=VAEYMMTVK9

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★ Star rating: **5.3**



Windows type a	and performance	value					
Window ID	Window type					U-value	SHGC
ALM-005-03 A	Aluminium A DO	G Argon Fill High S	Solar Gain low-	E -Clear		4.1	0.47
ALM-006-03 A	Aluminium B D0	G Argon Fill High S	Solar Gain low-	E -Clear		4.1	0.52
Windows sched	dule						
Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name		Outdoor shade
ALM-005-03 A	W04	1750	5040	SW	Kitchen/Living		No
ALM-006-03 A	W03	1750	940	SE	Kitchen/Living		No
ALM-006-03 A	W02	2700	3800	SW	Kitchen/Living		No
ALM-006-03 A	W01	2700	4390	SE	Kitchen/Living		No
ALM-005-03 A	W16	800	5050	NE	Kitchen/Living		No
ALM-006-03 A	W09	2700	3450	NW	Bedroom 1		No
ALM-005-03 A	W08	2700	1000	NW	Bedroom 1		No
ALM-006-03 A	W07	2700	3220	SW	Bedroom 1		No
ALM-005-03 A	W12	2700	1000	NE	Bedroom 1		No
ALM-006-03 A	W11	600	3850	NE	Bedroom 1		No
ALM-005-03 A	W10	2700	1000	NE	Bedroom 1		No
ALM-006-03 A	W06	2700	3635	SW	Bedroom 2		No
ALM-006-03 A	W05	2700	3550	SW	Bedroom 3		No
ALM-006-03 A	W13	2700	1030	NW	Ens		No
ALM-005-03 A	W14	1750	1699	NE	Ens		No
ALM-005-03 A	W15	1750	1200	NE	Ens		No
ALM-006-03 A	W17	800	2600	NE	L'dry		No
ALM-006-03 A	3-W01	2700	3000	SW	Public		No
ALM-006-03 A	3-W01	2700	435	SW	Public		No
ALM-006-03 A	3-W02	2700	1400	SE	Public		No

Roof windows and skylight type and performance value								
ID	Window type				U-value	SHGC		
Roof window and	Roof window and skylight schedule							
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser		







Building Features

External wall type					
Туре	Insulation	Wall wrap			
1 : VA - Fibro Clad Framed+R2.7 WA13b	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No			
2 : FR5 - Fibro Clad Framed		No			
3 : FR5 - Brick Veneer		No			
4 : VA - 92mm Internal Plasterboard WA11a	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No			
5 : VA - Internal to lift	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No			
6 : VA - 200Concrete Panel		No			

External wall schedule

Wall type	Area (m²)	Orientation	Zone name	Fixed shade	Eaves
1 : VA - Fibro Clad Framed+R2.7 WA13b	13.7	SW	Kitchen/Living	No	Yes
1 : VA - Fibro Clad Framed+R2.7 WA13b	3	SE	Kitchen/Living	Yes	Yes
1 : VA - Fibro Clad Framed+R2.7 WA13b	1.3	SW	Kitchen/Living	Yes	Yes
2 : FR5 - Fibro Clad Framed	10.6	SW	Kitchen/Living	Yes	Yes
2 : FR5 - Fibro Clad Framed	11.7	SE	Kitchen/Living	Yes	Yes
3 : FR5 - Brick Veneer	0.5	NE	Kitchen/Living	Yes	No
1 : VA - Fibro Clad Framed+R2.7 WA13b	18.9	NE	Kitchen/Living	Yes	No
2 : FR5 - Fibro Clad Framed	9.9	NW	Bedroom 1	No	Yes
1 : VA - Fibro Clad Framed+R2.7 WA13b	3.8	NW	Bedroom 1	No	Yes
2 : FR5 - Fibro Clad Framed	3.1	NW	Bedroom 1	No	Yes
2 : FR5 - Fibro Clad Framed	8.9	SW	Bedroom 1	Yes	Yes
1 : VA - Fibro Clad Framed+R2.7 WA13b	1.7	SW	Bedroom 1	Yes	Yes
2 : FR5 - Fibro Clad Framed	2.9	NE	Bedroom 1	Yes	Yes
1 : VA - Fibro Clad Framed+R2.7 WA13b	10.7	NE	Bedroom 1	Yes	Yes
2 : FR5 - Fibro Clad Framed	2.8	NE	Bedroom 1	Yes	Yes
2 : FR5 - Fibro Clad Framed	9.8	SW	Bedroom 2	No	Yes
1 : VA - Fibro Clad Framed+R2.7 WA13b	2.9	NW	Bedroom 2	Yes	Yes
2 : FR5 - Fibro Clad Framed	9.7	SW	Bedroom 3	No	Yes
2 : FR5 - Fibro Clad Framed	3	NW	Ens	Yes	Yes
1 : VA - Fibro Clad Framed+R2.7 WA13b	8.5	NE	Ens	No	No
4 : VA - 92mm Internal Plasterboard WA11a	0.6	SE	L'dry	No	No
5 : VA - Internal to lift	4	SE	L'dry	No	No
1 : VA - Fibro Clad Framed+R2.7 WA13b	7	NE	L'dry	Yes	No
4 : VA - 92mm Internal Plasterboard WA11a	0.7	NW	Public	No	No

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: 6 Aug 2017 ★ Star rating: 5.3



Building Features

2 : FR5 - Fibro Clad Framed	8.5	SW	Public	Yes	Yes
1 : VA - Fibro Clad Framed+R2.7 WA13b	1.2	SW	Public	Yes	No
2 : FR5 - Fibro Clad Framed	3.8	SE	Public	Yes	No
6 : VA - 200Concrete Panel	13.3	NE	Public	No	No

Internal wall type

Туре	Area (m²)	Insulation
1 : VA - 92mm Internal Plasterboard WA11a	73.8	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)
2 : VA - Fibro Clad Framed+R2.7 WA13b	5.8	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)
3 : VA - 64mm Internal Plasterboard WA10a	137.2	Glass fibre batt: R1.5 (R1.5)
4 : FR5 - Brick Veneer	5.6	

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	SuspSlab	60.3	Enclosed	0.0	floattimbe
Kitchen/Living	SuspSlab	1	Enclosed	1.5	floattimbe
Kitchen/Living	SuspSlab	1.1	Enclosed	1.5	floattimbe
Kitchen/Living	SuspSlab	6.7	Enclosed	0.0	floattimbe
Bedroom 1	SuspSlab	32.7	Enclosed	0.0	floattimbe
Bedroom 2	SuspSlab	12.6	Enclosed	0.0	Carpet
Bedroom 3	SuspSlab	12.4	Enclosed	0.0	Carpet
Corridor	SuspSlab	5.9	Enclosed	0.0	floattimbe
Ens	SuspSlab	5.3	Enclosed	0.0	Tiles
Ens	SuspSlab	3.5	Enclosed	0.0	Tiles
Bath	SuspSlab	4.6	Enclosed	0.0	Tiles
L'dry	SuspSlab	1.2	Enclosed	0.0	Tiles
L'dry	SuspSlab	1.7	Enclosed	1.5	Tiles
L'dry	SuspSlab	0.8	Enclosed	0.0	Tiles
L'dry	SuspSlab	0.7	Enclosed	1.5	Tiles
Public	SuspSlab	1.9	Enclosed	1.5	Carpet
Public	SuspSlab	 5.1	Enclosed	1.5	Carpet

Ceiling type			
Location	Material	Added insulation	Roof space above

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★ Star rating: **5.3**



Building Features

Certificate Number: VAEYMMTVK9

Kitchen/Living	Plasterboard		5.0	No
Kitchen/Living	Plasterboard		5.0	No
Kitchen/Living	Plasterboard		5.0	No
Kitchen/Living	Plasterboard		5.0	No
Bedroom 1	Plasterboard		5.0	No
Bedroom 2	Plasterboard		5.0	No
Bedroom 3	Plasterboard		5.0	No
Corridor	Plasterboard		5.0	No
Ens	Plasterboard		5.0	No
Ens	Plasterboard		5.0	No
Bath	Plasterboard		5.0	No
L'dry	Plasterboard		5.0	No
L'dry	Plasterboard		5.0	No
L'dry	Plasterboard		5.0	No
L'dry	Plasterboard		5.0	No
Public	Plasterboard		5.0	No
Public	Plasterboard		5.0	No
Ceiling penetrati	ons			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			

Roof type		
Material	Added insulation	Roof colour
Framed:Flat - Flat Framed (Metal Deck)	0.0	light
Slab:Slab - Suspended Slab	0.0	light

Certificate Number: VAEYMMTVK9 Date of Certificate: 6 Aug 2017 ★ Star rating: 5.3



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