

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: NU82QL6WA7

Date of Certificate: 11 Oct 2017

★ Star rating: 6

## Assessor details

Accreditation number: **VIC/BDAV/16/1734**  
Name: **Joseph Oppedisano**  
Organisation: **Envi Group**  
Email: **info@envigroup.net**  
Phone: **0421875663**  
Declaration of interest: **No potential conflicts of interest to declare**  
Software: **FirstRate5: 5.2.6 (3.13)**  
AAO: **BDAV**

## Overview

### Dwelling details

Address: **2, 19 Vialls Avenue**  
Suburb: **Parkdale**  
State: **VIC** Postcode: **3195**  
Type: **New Home** NCC Class: **Class 1a**  
Lot/DP number: **-** NatHERS climate zone: **62**  
Exposure: **suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: **REFER TO PLANS**  
Roof: **REFER TO PLANS**  
Floor: **REFER TO PLANS**  
Insulation: Wall: **REFER TO ENVI SPECIFICATION**  
Roof: **REFER TO ENVI SPECIFICATION**  
Floor: **REFER TO ENVI SPECIFICATION**  
Glazing: **REFER TO ENVI SPECIFICATION**  
**REFER TO ENVI SPECIFICATION**

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

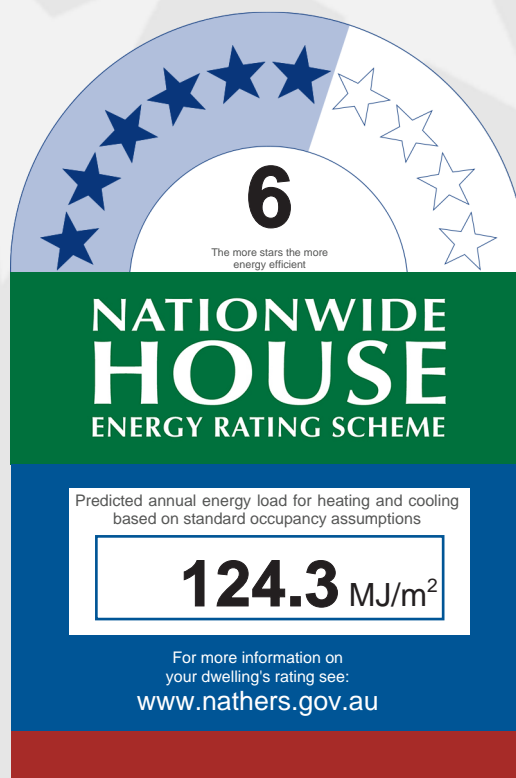
Conditioned: **193.1**  
Unconditioned: **13.8**  
Garage: **20.8**  
TOTAL: **227.7**

### Annual thermal performance loads (MJ/m<sup>2</sup>)

Heating: **108.6**  
Cooling: **15.7**  
TOTAL: **124.3**

### Plan documents

Plan ref/date: **-**  
Prepared by: **-**



### Ceiling penetrations

(see following pages for details)

Sealed: **55**  
Unsealed: **0**  
TOTAL:\*\* **55**

Principal downlight type: **LED**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded 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.

### 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=NU82QL6WA7>

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: NU82QL6WA7

Date of Certificate: 11 Oct 2017

★ Star rating: 6



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
CMP-003-01 I	Composite A DG Air Fill Clear-Clear	3.9	0.51
CMP-004-01 I	Composite B DG Air Fill Clear-Clear	3.9	0.59
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 22	1200	600	W	Ensuite	No
ALM-001-01 A	Opening 23	2100	1800	W	Guest Bedroom	No
ALM-001-01 A	Opening 25	1200	600	W	LDRY	No
ALM-001-01 A	Opening 21	2100	600	S	Entry/Study	No
ALM-001-01 A	Opening 20	2400	600	S	Entry/Study	No
CMP-003-01 I	Opening 28	700	2400	W	Kitchen/Living	No
CMP-004-01 I	Opening 27	2400	1800	W	Kitchen/Living	No
CMP-003-01 I	Opening 26	1400	1800	W	Kitchen/Living	No
ALM-002-01 A	Opening 29	2400	4400	N	Kitchen/Living	No
ALM-001-01 A	Opening 59	1200	1200	N	Bath	No
ALM-001-01 A	Opening 58	1200	1800	N	Bedroom 3	No
ALM-001-01 A	Opening 57	600	1200	W	Bedroom 3	No
ALM-001-01 A	Opening 56	1200	600	W	PDR	No
ALM-001-01 A	Opening 55	1200	1800	W	Bedroom 2	No
ALM-001-01 A	Opening 53	1200	600	W	Ensuite	No
ALM-001-01 A	Opening 52	600	2700	W	Bedroom 1	No
ALM-001-01 A	Opening 51	2000	2700	S	Bedroom 1	No
ALM-002-01 A	Opening 50	2000	435	E	Bedroom 1	No
ALM-002-01 A	Opening 48	600	900	S	Bedroom 1	No
ALM-002-01 A	Opening 49	600	900	S	Bedroom 1	No
ALM-001-01 A	Opening 54	1200	1800	W	Living	No

### Roof windows and skylight type and performance value

ID	Window type	U-value	SHGC
----	-------------	---------	------

### Roof window and skylight schedule

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: NU82QL6WA7

Date of Certificate: 11 Oct 2017

★ Star rating: 6



## Building Features

ID	Roof window/ skylight no.	Area (m <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

### External wall type

Type	Insulation	Wall wrap
1 : GEN - DB		No
2 : GEN - SB		No
3 : GEN - BV25	Glass fibre batt: R2.5 (R2.5)	No
4 : GEN - 270SHAFTLINER25	Glass fibre batt: R2.5 (R2.5); Glass fibre batt: R2.5 (R2.5)	No
5 : GEN - FC25	Glass fibre batt: R2.5 (R2.5)	No
6 : GEN - EPS7525	Glass fibre batt: R2.5 (R2.5)	No
7 : GEN - WB25	Glass fibre batt: R2.5 (R2.5)	No

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : GEN - DB	2.1	N	Garage	Yes	No
2 : GEN - SB	17.2	W	Garage	No	No
1 : GEN - DB	10	S	Garage	Yes	No
3 : GEN - BV25	4.9	W	Ensuite	Yes	No
3 : GEN - BV25	9	W	Guest Bedroom	Yes	No
3 : GEN - BV25	4.5	W	LDRY	Yes	No
4 : GEN - 270SHAFTLINER25	8.8	E	Store	No	No
4 : GEN - 270SHAFTLINER25	20.2	E	Entry/Study	No	No
4 : GEN - 270SHAFTLINER25	9.1	E	Entry/Study	No	No
3 : GEN - BV25	1	W	Entry/Study	Yes	No
3 : GEN - BV25	3.3	S	Entry/Study	Yes	Yes
3 : GEN - BV25	5.5	S	Entry/Study	Yes	Yes
3 : GEN - BV25	10	W	Kitchen/Living	Yes	No
3 : GEN - BV25	1.7	S	Kitchen/Living	Yes	No
3 : GEN - BV25	8	W	Kitchen/Living	Yes	Yes
3 : GEN - BV25	1.6	N	Kitchen/Living	Yes	Yes
3 : GEN - BV25	7.3	W	Kitchen/Living	Yes	No
4 : GEN - 270SHAFTLINER25	22.3	E	Kitchen/Living	No	No
3 : GEN - BV25	0.6	E	Kitchen/Living	Yes	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: **NU82QL6WA7**

Date of Certificate: **11 Oct 2017**

★ Star rating: **6**



## Building Features

3 : GEN - BV25	16.6	N	Kitchen/Living	No	No
5 : GEN - FC25	5	N	Bath	Yes	Yes
4 : GEN - 270SHAFTLINER25	9.7	E	Bath	No	No
5 : GEN - FC25	6.6	N	Bedroom 3	Yes	Yes
5 : GEN - FC25	1.5	N	Bedroom 3	Yes	Yes
5 : GEN - FC25	5.7	W	Bedroom 3	Yes	Yes
5 : GEN - FC25	2.2	N	Bedroom 3	Yes	Yes
5 : GEN - FC25	4.1	W	Bedroom 3	No	Yes
5 : GEN - FC25	2.7	W	PDR	No	Yes
5 : GEN - FC25	8.9	W	Bedroom 2	No	Yes
5 : GEN - FC25	1.1	S	Bedroom 2	Yes	Yes
6 : GEN - EPS7525	6.2	W	Ensuite	Yes	Yes
4 : GEN - 270SHAFTLINER25	6	E	WIR	No	No
5 : GEN - FC25	1.1	N	Bedroom 1	Yes	Yes
5 : GEN - FC25	13.5	W	Bedroom 1	No	Yes
5 : GEN - FC25	10.9	S	Bedroom 1	Yes	Yes
5 : GEN - FC25	1.6	E	Bedroom 1	Yes	Yes
7 : GEN - WB25	4.8	S	Bedroom 1	Yes	Yes
4 : GEN - 270SHAFTLINER25	2.7	E	Bedroom 1	No	No
4 : GEN - 270SHAFTLINER25	11.9	E	Passage	No	No
6 : GEN - EPS7525	9	W	Living	Yes	Yes
4 : GEN - 270SHAFTLINER25	18.3	E	Living	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : GEN - INT25	117.8	Glass fibre batt: R2.5 (R2.5)
2 : FR5 - Internal Plasterboard Stud Wall	312.2	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Garage	CSOG: Slab on Ground	20.8	Enclosed	0.0	none
Ensuite	CSOG: Slab on Ground	4.6	Enclosed	0.0	Tiles
Guest Bedroom	CSOG: Slab on Ground	12.8	Enclosed	0.0	Carpet
LDRY	CSOG: Slab on Ground	4.8	Enclosed	0.0	Tiles

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: **NU82QL6WA7**

Date of Certificate: **11 Oct 2017**

★ Star rating: **6**



## Building Features

PTRY	CSOG: Slab on Ground	2.5	Enclosed	0.0	Tiles
Store	CSOG: Slab on Ground	3.2	Enclosed	0.0	Carpet
Entry/Study	CSOG: Slab on Ground	32.3	Enclosed	0.0	Carpet
Kitchen/Living	CSOG: Slab on Ground	51.8	Enclosed	0.0	Tiles
PDR	CSOG: Slab on Ground	2.1	Enclosed	0.0	Tiles
Bath	Timber	6.6	Enclosed	2.0	Tiles
Bedroom 3	Timber	11.3	Enclosed	2.0	Carpet
Bedroom 3	Timber	0.4	Elevated	2.0	Carpet
PDR	Timber	2.4	Enclosed	2.0	Tiles
Bedroom 2	Timber	14.9	Enclosed	2.0	Carpet
Ensuite	Timber	5.9	Enclosed	2.0	Tiles
WIR	Timber	3.7	Enclosed	2.0	Carpet
Bedroom 1	Timber	21.9	Enclosed	2.0	Carpet
Passage	Timber	6.8	Enclosed	2.0	Carpet
Living	Timber	24.9	Enclosed	2.0	Carpet

## Ceiling type

Location	Material	Added insulation	Roof space above
Garage	Plasterboard	2.0	No
Garage	Plasterboard	2.0	No
Garage	Plasterboard	0.0	No
Ensuite	Plasterboard	2.0	No
Ensuite	Plasterboard	5.0	No
Guest Bedroom	Plasterboard	2.0	No
Guest Bedroom	Plasterboard	5.0	No
LDRY	Plasterboard	2.0	No
PTRY	Plasterboard	2.0	No
Store	Plasterboard	2.0	No
Entry/Study	Plasterboard	2.0	No
Entry/Study	Plasterboard	2.0	No
Entry/Study	Plasterboard	2.0	No
Entry/Study	Plasterboard	2.0	No
Entry/Study	Plasterboard	2.0	No
Entry/Study	Plasterboard	2.0	No
Entry/Study	Plasterboard	5.0	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: **NU82QL6WA7**

Date of Certificate: **11 Oct 2017**

★ Star rating: **6**



## Building Features

Kitchen/Living	Plasterboard	2.0	No
Kitchen/Living	Plasterboard	2.0	No
Kitchen/Living	Plasterboard	2.0	No
Kitchen/Living	Plasterboard	2.0	No
Kitchen/Living	Plasterboard	2.0	No
Kitchen/Living	Plasterboard	2.0	No
Kitchen/Living	Plasterboard	5.0	No
PDR	Plasterboard	2.0	No
PDR	Plasterboard	2.0	No
Bath	Plasterboard	5.0	Yes
Bedroom 3	Plasterboard	5.0	Yes
PDR	Plasterboard	5.0	Yes
Bedroom 2	Plasterboard	5.0	Yes
Ensuite	Plasterboard	5.0	Yes
WIR	Plasterboard	5.0	Yes
Bedroom 1	Plasterboard	5.0	Yes
Passage	Plasterboard	5.0	Yes
Living	Plasterboard	5.0	Yes

### Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
Ensuite	3	Downlights	50	50	Sealed
Ensuite	1	Exhaust Fans	225	225	Sealed
Guest Bedroom	2	Downlights	50	50	Sealed
LDRY	2	Downlights	50	50	Sealed
PTRY	1	Downlights	50	50	Sealed
Store	1	Downlights	50	50	Sealed
Entry/Study	7	Downlights	50	50	Sealed
Kitchen/Living	12	Downlights	50	50	Sealed
Kitchen/Living	1	Exhaust Fans	225	225	Sealed
PDR	1	Exhaust Fans	225	225	Sealed
PDR	1	Downlights	50	50	Sealed
Bath	1	Exhaust Fans	225	225	Sealed
Bath	2	Downlights	50	50	Sealed
Bedroom 3	2	Downlights	50	50	Sealed
PDR	1	Downlights	50	50	Sealed

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: NU82QL6WA7

Date of Certificate: 11 Oct 2017

★ Star rating: 6



## Building Features

Bedroom 2	2	Downlights	50	50	Sealed
Ensuite	1	Exhaust Fans	225	225	Sealed
Ensuite	2	Downlights	50	50	Sealed
WIR	1	Downlights	50	50	Sealed
Bedroom 1	3	Downlights	50	50	Sealed
Passage	3	Downlights	50	50	Sealed
Living	5	Downlights	50	50	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

### Roof type

Material	Added insulation	Roof colour
Framed:Flat - Flat Framed (Metal Deck)	0.0	medium
Disc:Attic-Discontinuous	0.0	medium



## Additional information

### GENERAL NOTES

- The building materials listed in these reports are the minimum requirement needed to achieve the listed Star Rating required. All State, Territory & Federal; building standards and regulations still need to be adhered to.
- All insulation is to be supplied and installed as per Australian Standards & required regulations.
- Holes, rips and penetrations through Sisalation, Reflective Foils and Insulation Warps must be sealed or repaired.
- Self-closing damper to all the exhaust fans
- All external windows and doors are to be fitted with weather-strips
- All roof lights must be sealed or capable to be sealed
- All chimneys and flues to be fitted with self closing dampers
- Insulation batts and blankets are not to be compressed when being installed and all voids must be completely filled.
- Insulation is to be laid over all manhole lids, ensuring a continuous layer of insulation. No ceiling penetrations have been entered for man holes.
- Glass window and glass door sizes are not to be increased, it will change the rating of this report.
- Total System 'U-Value' - The glass windows and/or glass doors supplied must equal and/or can be less than the 'U-Values' listed in this report.
- Total System 'SHGC' - The glass windows and/or glass doors supplied should not be greatly reduced or increased (a 5% variance is acceptable) than the Total System 'SHGC' Values listed in this report.
- All downlights and exhaust fans that penetration the ceiling must be sealed.
- If any details are changed on this project as listed above then this report may be invalid and will need to be re assessed to meet the minimum star rating required; there will be an additional cost to re issue this report and also re stamping the amended working drawings if required.
- (NCC 2016: V2, BCA) This Thermal Performance Assessment meets the 6 Star Rating required as laid out in the NCC 2016, BCA V2, Class 1 and Class 10 Buildings
- (NCC 2016: V2, BCA) It is also the responsibility of the developer, builder and/or owner builder that the following sections of the NCC 2016, BCA Volume 2, comply; 3.12.1.1 Building fabric thermal insulation; 3.12.1.2(c) & 3.12.1.4(b) Thermal breaks; 3.12.1.5(c) & 3.12.1.5(d) Floor edge insulation & Part 3.12.3 Building Sealing.
- (NCC 2016: V2, BCA - Victoria) In the case of a new Class 1 building, it must have either a rainwater tank connected to all sanitary flushing systems or a solar water heater system.
- All downlights and exhaust fans that penetration the ceiling must be sealed.
- All lighting in the dwelling will be designed at 5W/m<sup>2</sup> or better.
- All lighting on the verandah, balcony will be designed at 4W/m<sup>2</sup> or better.
- All lighting in the garage will be designed at 3W/m<sup>2</sup> or better.
- Artificial lighting around the perimeter of the building must be controlled by a daylight sensor.





## 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](http://www.nathers.gov.au)

For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)