

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0000162537

Certificate Date: 02 Sep 2015

★ Star rating: 4.1



## Assessor details

Accreditation number: **VIC/BDAV/12/1457**  
Name: **B Carr**  
Organisation: **STS**  
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Phone: **0420312721**  
Declaration of interest: **No potential conflicts of interest to declare**  
Software: **AccuRate Sustainability V2.3.3.13 SP2**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 5.2, 175-177 Cleveland STREET**  
Suburb: **REDFERN**  
State: **NSW** Postcode: **2016**  
Type: **New** NCC Class: **2**  
Lot/DP number: **Lot 15,1,10,3,4,5/D** NatHERS climate zone: **56**  
Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete roof**  
**Plywood**  
Insulation: **R2.0 wall insulation**  
**Ceiling (uninsulated)**  
**Floor (uninsulated)**  
Glazing: **Aluminium A SG Low Solar Gain Low-E**

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

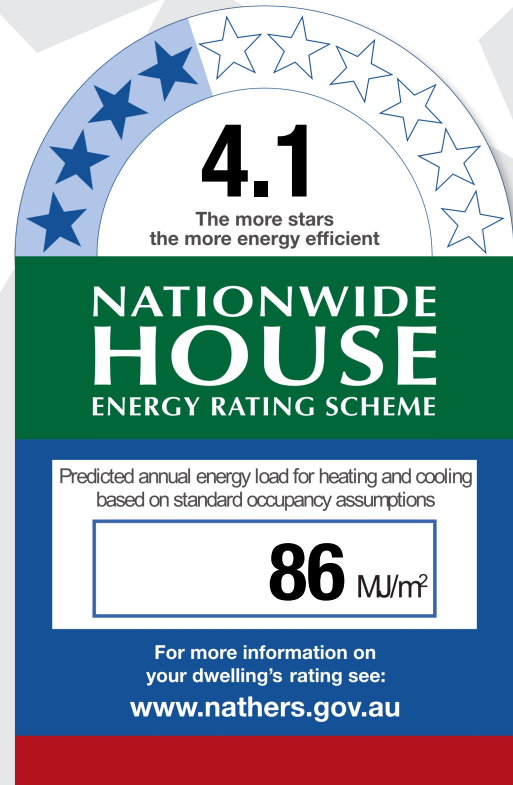
Conditioned: **50**  
Unconditioned: **4**  
Garage: **54**  
TOTAL: **54**

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

Heating: **43**  
Cooling: **43**  
TOTAL: **86**

### Plan documents

Plan reference: **2014067**  
Prepared by: **JPRA Architects**



### Ceiling penetrations

(see following pages for details)

Sealed: **16**  
Unsealed: **0**  
TOTAL:\*\* **16**

\*\*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.

Principle downlight type: **Light-emitting diode (LED)**

### Window selection - default windows only

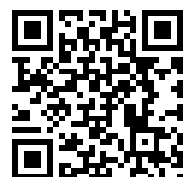
Note on allowable window values: With a 10% tolerance to the nominated SHGC window values shown on page 2, the following ratings are achieved:

-10% SHGC **4.1**  
+10% SHGC **3.9**

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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

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## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-04 A	DEFAULTS: Aluminium A SG Low Solar Gain Low-E	5.60	0.36

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Kitchen/Living	ALM-001-04 A	living	2700	4599	E	None
Bed	ALM-001-04 A	bed	1200	4600	E	None
Bed	ALM-001-04 A	bed	1200	4600	E	None

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

Type	Insulation	Wall wrap or foil
EW-003: Brick Veneer	Glass fibre batt: R2.0	Yes
EW-004: Plasterboard	Glass fibre batt: R1.5	No
EW-005: Plasterboard	Glass fibre batt: R1.5	No

### External wall schedule

Location	Wall type	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Kitchen/Living	EW-003	4600	2700	E	Yes	
Kitchen/Living	EW-003	1640	2700	N	Yes	
Bed	EW-003	1640	1200	N	No	
Bed	EW-003	4600	2700	W	No	
Bed	EW-003	4600	1200	E	No	
Bed	EW-003	4600	1200	E	No	
Bath	EW-005	2500	2700	W	Yes	1600
Entrance/Hall	EW-004	4200	2700	S	No	
Entrance/Hall	EW-005	1000	2700	W	Yes	1600

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-001: Plasterboard	26.6		No
IW-002: Plasterboard	82.7	Glass fibre batt: R1.5	No

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## Building features continued

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living/Neighbour	Concrete Suspended Slab 150 mm: ceramic tile/air gap/plasterboard	5.5			Ceramic tile
Kitchen/Living/Neighbour	Concrete Suspended Slab 150 mm: timber/air gap/plasterboard	25.0			
Bed/Bath	Concrete Suspended Slab 150 mm: carpet/air gap/plasterboard	4.3			Carpet 10 + rubber underlay 8
Bed/Entrance/Hall	Concrete Suspended Slab 150 mm: carpet/air gap/plasterboard	5.0			Carpet 10 + rubber underlay 8
Bed/Kitchen/Living	Concrete Suspended Slab 150 mm: carpet/air gap/plasterboard	30.5			Carpet 10 + rubber underlay 8
Bath/Neighbour	Concrete Suspended Slab 150 mm: ceramic tile/air gap/plasterboard	4.3			Ceramic tile
Entrance/Hall/Neighbour	Concrete Suspended Slab 150 mm: timber/air gap/plasterboard	5.0			

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bed/Kitchen/Living	Concrete Suspended Slab 150 mm: carpet/air gap/plasterboard		No
Bed/Bath	Concrete Suspended Slab 150 mm: carpet/air gap/plasterboard		No
Bed/Entrance/Hall	Concrete Suspended Slab 150 mm: carpet/air gap/plasterboard		No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	8	Downlight		Unsealed
Bed	16	Downlight		Sealed
Bath	3	Downlight		Unsealed
Entrance/Hall	3	Downlight		Unsealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
as ROOF-B011.rof #2016 © Concrete slab 150mm - Drained Tile walking surface R2.0 - R2.0 insulation under slab - Susp. Ceiling under		Medium

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

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