

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004943734

Certificate Date: 21 Jun 2020

★ Star rating: 5.2



## Assessor details

Accreditation number: **HERA10033**  
Name: **Tracey Cools**  
Organisation: **Efficient Liiving Pty Ltd**  
Email: **admin@efficientliving.com.au**  
Phone: **(02) 9970 6181**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **HERA**

## Overview

### Dwelling details

Street: **4B Cambridge Avenue**  
Suburb: **Narraweena**  
State: **NSW** Postcode: **2099**  
Type: **New Dwelling** NCC Class: **1A**  
NatHERS climate zone: **56**  
Lot/DP number: **1230126** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Weatherboard Cavity Panel Direct Fix**  
**Corrugated Iron**  
**Suspended Timber Floor**  
Insulation: **R2.7 wall insulation**  
**R3.5 ceiling insulation**  
**R3.0 floor insulation**  
Glazing: **ALM-006-04 A Aluminium B DG Argon**  
**Fill Low Solar Gain low-E -Clear**

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

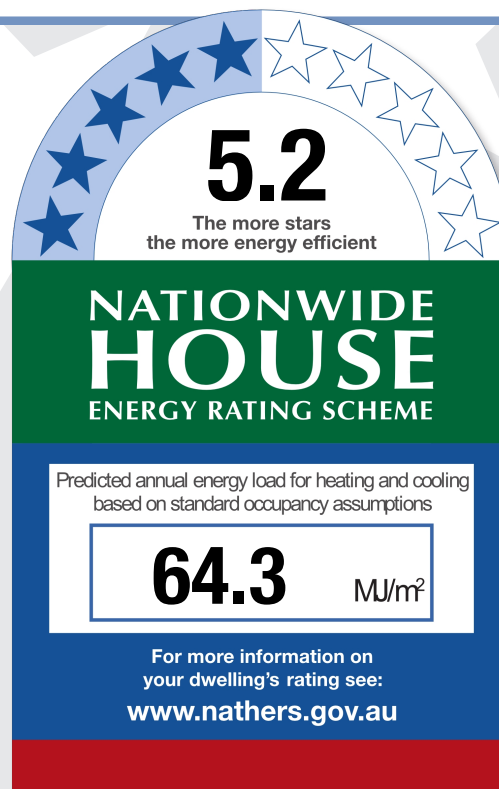
Conditioned: **222.0**  
Unconditioned: **55.0**  
Garage: **31.0**  
TOTAL: **277.0**

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

Heating: **39.8**  
Cooling: **24.5**  
TOTAL: **64.3**

### Plan documents

Plan ref/date: **20-0518**  
Prepared by: **Sally Gardner**



### Ceiling penetrations

(see following pages for details)

Sealed: **103**  
Unsealed: **0**  
TOTAL:\*\* **103**

\*\*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: **LED**

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**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004943734**

Certificate Date:

**21 Jun 2020**

★ Star rating:

**5.2**



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-005-04 A	ALM-005-04 A Aluminium A DG Argon Fill Low Solar Gain low-E - Clear	4.8	0.34
ALM-006-04 A	ALM-006-04 A Aluminium B DG Argon Fill Low Solar Gain low-E - Clear	4.8	0.34

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Ens 2	ALM-005-04 A	n/a	900	600	N	No Shading
Ens 2	ALM-005-04 A	n/a	450	950	W	No Shading
Guest	ALM-006-04 A	n/a	2250	750	W	No Shading
Foyer/Corridor	ALM-005-04 A	n/a	2250	900	N	No Shading
Foyer/Corridor	ALM-006-04 A	n/a	2250	1150	N	No Shading
Foyer/Corridor	ALM-006-04 A	n/a	2250	1150	N	No Shading
Foyer/Corridor	ALM-006-04 A	n/a	1800	1300	S	No Shading
Foyer/Corridor	ALM-006-04 A	n/a	1800	1300	S	No Shading
Foyer/Corridor	ALM-006-04 A	n/a	2250	3200	S	No Shading
Foyer/Corridor	ALM-006-04 A	n/a	450	2700	S	No Shading
Foyer/Corridor	ALM-006-04 A	n/a	450	2700	S	No Shading
Foyer/Corridor	ALM-005-04 A	n/a	2250	870	W	No Shading
Bedroom 3	ALM-006-04 A	n/a	1500	1800	N	No Shading
Bedroom 4	ALM-006-04 A	n/a	1500	1800	N	No Shading
Bathroom	ALM-006-04 A	n/a	750	2100	N	No Shading
Laundry	ALM-005-04 A	n/a	2700	900	N	No Shading
Kitchen/Living	ALM-006-04 A	n/a	400	3000	N	No Shading
Kitchen/Living	ALM-006-04 A	n/a	2400	4069	E	No Shading
Kitchen/Living	ALM-006-04 A	n/a	2400	3670	N	No Shading
Kitchen/Living	ALM-006-04 A	n/a	1500	3600	E	No Shading
Kitchen/Living	ALM-005-04 A	n/a	900	600	S	No Shading
Kitchen/Living	ALM-005-04 A	n/a	900	600	S	No Shading
Kitchen/Living	ALM-005-04 A	n/a	900	600	S	No Shading
Ensuite	ALM-006-04 A	n/a	1500	1500	E	No Shading
Ensuite	ALM-005-04 A	n/a	1200	600	W	No Shading
Master Suite	ALM-006-04 A	n/a	1700	3600	E	No Shading
Master Suite	ALM-006-04 A	n/a	1500	1200	E	No Shading
Master Suite	ALM-006-04 A	n/a	325	3600	E	No Shading
Master Suite	ALM-006-04 A	n/a	1100	600	S	No Shading
Dressing	ALM-006-04 A	n/a	1200	600	N	No Shading
Retreat	ALM-006-04 A	n/a	600	3000	S	No Shading
Retreat	ALM-006-04 A	n/a	600	3000	N	No Shading
Bedroom 2	ALM-006-04 A	n/a	1800	1800	W	No Shading
Bedroom 2	ALM-006-04 A	n/a	600	3000	N	No Shading
Powder	ALM-006-04 A	n/a	1500	900	W	No Shading
Void	ALM-006-04 A	n/a	1200	3300	S	No Shading
Void	ALM-006-04 A	n/a	1800	1800	W	No Shading

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004943734**

Certificate Date:

**21 Jun 2020**

★ Star rating:

**5.2**



## Building features continued

### 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 (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Weatherboard Cavity Panel Direct Fix	Bulk Insulation R2.7	No
EW-2	Weatherboard Cavity Panel Direct Fix	No insulation	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Ens 2	EW-1	3170	2750	N	No	615
Ens 2	EW-1	1270	2750	W	No	1051
Guest	EW-1	3214	2750	W	No	1041
Foyer/Corridor	EW-1	4823	2750	N	No	56
Foyer/Corridor	EW-1	10495	2750	S	No	50
Foyer/Corridor	EW-1	12575	2750	S	No	548
Foyer/Corridor	EW-1	1249	2750	W	No	1008
Garage 1	EW-2	645	2750	W	No	4225
Garage 1	EW-2	5773	2750	N	No	35
Garage 1	EW-2	3742	2750	E	No	25
Bedroom 3	EW-1	3300	2750	W	No	0
Bedroom 3	EW-1	3145	2750	N	No	0
Bedroom 4	EW-1	3240	2750	N	No	0
Bathroom	EW-1	2340	2750	N	No	0
Laundry	EW-1	2745	2750	W	No	50
Laundry	EW-1	1695	2750	N	No	50
Kitchen/Living	EW-1	4145	2750	N	No	50
Kitchen/Living	EW-1	4950	2750	E	No	4500
Kitchen/Living	EW-1	3900	2750	N	No	5000
Kitchen/Living	EW-1	4150	2750	E	No	600
Kitchen/Living	EW-1	7995	2750	S	No	50
Ensuite	EW-1	1845	2440	E	No	600
Ensuite	EW-1	650	2440	W	No	11100
Ensuite	EW-1	4150	2440	N	No	700
Master Suite	EW-1	5145	3500	E	No	600
Master Suite	EW-1	5895	2440	S	No	600
Dressing	EW-1	1740	2440	N	No	600
Retreat	EW-1	3090	2440	S	No	600
Retreat	EW-1	4290	2440	N	No	600

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004943734**

Certificate Date:

**21 Jun 2020**

★ Star rating:

**5.2**



## Building features continued

Bedroom 2	EW-1	2545	2700	W	No	650
Bedroom 2	EW-1	4395	2440	N	No	600
Powder	EW-1	1540	3700	W	No	650
Void	EW-1	5595	2440	S	No	600
Void	EW-1	2245	2700	W	No	650

## Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	45.0	Bulk Insulation, No Air Gap R2	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	190.0	No insulation	No

## Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Ens 2	Suspended Concrete Slab 150mm	3.9	Totally Open	Bulk Insulation in Contact with Floor R3	Ceramic Tiles 8mm
Guest	Suspended Concrete Slab 150mm	9.8	Totally Open	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
Foyer/Corridor	Suspended Concrete Slab 150mm	46.7	Enclosed	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
Garage 1	Suspended Concrete Slab 150mm	31.0	Open	No Insulation	Bare
Bedroom 3	Suspended Timber Floor 19mm	12.4	Enclosed	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
Bedroom 4	Suspended Timber Floor 19mm	12.7	Enclosed	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
Bathroom	Suspended Timber Floor 19mm	9.7	Enclosed	Bulk Insulation in Contact with Floor R3	Ceramic Tiles 8mm
Pantry	Suspended Timber Floor 19mm	4.5	Enclosed	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
Laundry	Suspended Timber Floor 19mm	4.5	Enclosed	Bulk Insulation in Contact with Floor R3	Ceramic Tiles 8mm
Kitchen/Living	Suspended Timber Floor 19mm	52.7	Enclosed	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
Ensuite/Kitchen/Living	Timber Above Plasterboard 19mm	7.4		No Insulation	Ceramic Tiles 8mm
Master Suite/Foyer/Corridor	Timber Above Plasterboard 19mm	2.7		No Insulation	Carpet+Rubber Underlay 18mm
Master Suite/Pantry	Timber Above Plasterboard 19mm	0.6		No Insulation	Carpet+Rubber Underlay 18mm

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004943734**

Certificate Date:

**21 Jun 2020**

★ Star rating:

**5.2**



## Building features continued

Master Suite/Kitchen/Living	Timber Above Plasterboard 19mm	20.2	No Insulation	Carpet+Rubber Underlay 18mm
Dressing/Foyer/Corridor	Timber Above Plasterboard 19mm	3.0	No Insulation	Carpet+Rubber Underlay 18mm
Dressing/Bathroom	Timber Above Plasterboard 19mm	0.8	No Insulation	Carpet+Rubber Underlay 18mm
Dressing/Pantry	Timber Above Plasterboard 19mm	4.1	No Insulation	Carpet+Rubber Underlay 18mm
Retreat/Foyer/Corridor	Timber Above Plasterboard 19mm	8.2	No Insulation	Carpet+Rubber Underlay 18mm
Retreat/Bedroom 4	Timber Above Plasterboard 19mm	7.9	No Insulation	Carpet+Rubber Underlay 18mm
Retreat/Bathroom	Timber Above Plasterboard 19mm	9.1	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2/Bedroom 3	Timber Above Plasterboard 19mm	7.8	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2/Bedroom 4	Timber Above Plasterboard 19mm	3.1	No Insulation	Carpet+Rubber Underlay 18mm
Powder/Bedroom 3	Timber Above Plasterboard 19mm	2.8	No Insulation	Ceramic Tiles 8mm
Corridor/Foyer/Corridor	Timber Above Plasterboard 19mm	1.1	No Insulation	Carpet+Rubber Underlay 18mm
Corridor/Bedroom 3	Timber Above Plasterboard 19mm	1.6	No Insulation	Carpet+Rubber Underlay 18mm
Corridor/Bedroom 4	Timber Above Plasterboard 19mm	1.7	No Insulation	Carpet+Rubber Underlay 18mm
Void/Foyer/Corridor	Timber Above Plasterboard 19mm	9.9	No Insulation	Carpet+Rubber Underlay 18mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Ens 2	Plasterboard	Bulk Insulation R3.5	Yes
Guest	Plasterboard	Bulk Insulation R3.5	Yes
Foyer/Corridor	Plasterboard	Bulk Insulation R3.5	Yes
Foyer/Corridor	Timber Above Plasterboard	No Insulation	No
Garage 1	Plasterboard	No insulation	Yes
Bedroom 3	Timber Above Plasterboard	No Insulation	No
Bedroom 4	Timber Above Plasterboard	No Insulation	No
Bathroom	Timber Above Plasterboard	No Insulation	No
Pantry	Timber Above Plasterboard	No Insulation	No
Laundry	Plasterboard	Bulk Insulation R3.5	Yes
Kitchen/Living	Plasterboard	Bulk Insulation R3.5	Yes
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Ensuite	Plasterboard	Bulk Insulation R3.5	No
Master Suite	Plasterboard	Bulk Insulation R3.5	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004943734**

Certificate Date:

**21 Jun 2020**

★ Star rating:

**5.2**



## Building features continued

Dressing	Plasterboard	Bulk Insulation R3.5	No
Retreat	Plasterboard	Bulk Insulation R3.5	No
Bedroom 2	Plasterboard	Bulk Insulation R3.5	No
Powder	Plasterboard	Bulk Insulation R3.5	No
Corridor	Plasterboard	Bulk Insulation R3.5	No
Void	Plasterboard	Bulk Insulation R3.5	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens 2	1	Downlights - LED	150	Sealed
Ens 2	1	Exhaust Fans	300	Sealed
Guest	4	Downlights - LED	150	Sealed
Foyer/Corridor	19	Downlights - LED	150	Sealed
Bedroom 3	5	Downlights - LED	150	Sealed
Bedroom 4	5	Downlights - LED	150	Sealed
Bathroom	4	Downlights - LED	150	Sealed
Bathroom	1	Exhaust Fans	300	Sealed
Pantry	2	Downlights - LED	150	Sealed
Laundry	1	Downlights - LED	150	Sealed
Laundry	1	Exhaust Fans	300	Sealed
Kitchen/Living	21	Downlights - LED	150	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ensuite	3	Downlights - LED	150	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
Master Suite	9	Downlights - LED	150	Sealed
Master Suite	1	Exhaust Fans	300	Sealed
Dressing	3	Downlights - LED	150	Sealed
Retreat	10	Downlights - LED	150	Sealed
Bedroom 2	4	Downlights - LED	150	Sealed
Powder	1	Downlights - LED	150	Sealed
Corridor	1	Downlights - LED	150	Sealed
Void	4	Downlights - LED	150	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004943734**

Certificate Date:

**21 Jun 2020**

★ Star rating:

**5.2**



### Building features continued

Construction	Added insulation	Roof colour
Corrugated Iron	Foil, No Gap, Reflective Side Down, Anti-glare Up	Light



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004943734

Certificate Date: 21 Jun 2020

★ Star rating: 5.2



## 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 the report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using the underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance.

The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

### Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

AAOs have specific quality assurance processes in place and continuing professional development requirements to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

### Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

### Contact

For more information on the Nationwide House Energy Rating Scheme (NatHERS), visit [www.nathers.gov.au](http://www.nathers.gov.au)

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