

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004619011

Certificate Date: 25 Feb 2020

★ Star rating: 5.8



## Assessor details

Accreditation number: **101182**  
Name: **Daniel.Warda**  
Organisation: **Energi Thermal Assessors Pty Ltd**  
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Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **ABSA**

## Overview

### Dwelling details

Street: **985 Pittwater Road**  
Suburb: **Collaroy**  
State: **NSW** Postcode: **2097**  
Type: **New Dwelling** NCC Class: **1A**  
NatHERS climate zone: **56**  
Lot/DP number: **10519** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Roof Tiles**  
**Suspended Timber Floor**  
Insulation: **R2.0 wall insulation**  
**R3.5 ceiling insulation**  
**No floor insulation**  
Glazing: **WID-006-04 A AI Residential Sliding**  
**Window SG 638mm Comfort Plus**

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

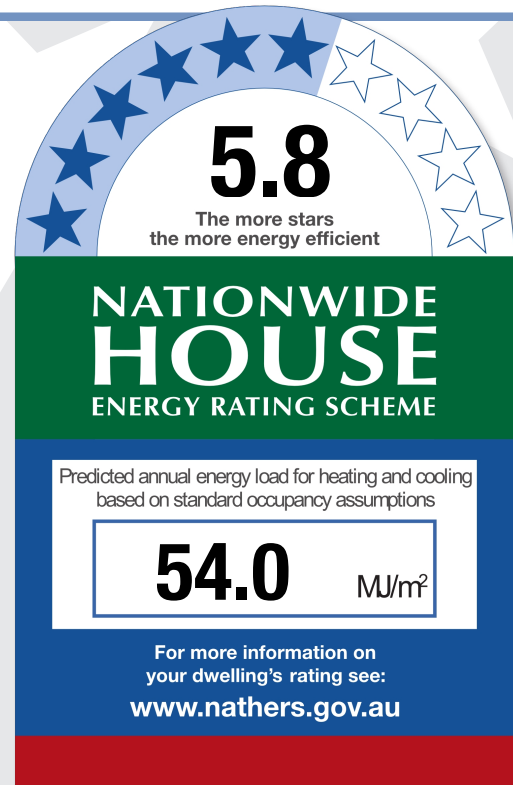
Conditioned: **247.0**  
Unconditioned: **49.0**  
Garage: **31.0**  
TOTAL: **295.0**

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

Heating: **29.2**  
Cooling: **24.7**  
TOTAL: **54.0**

### Plan documents

Plan ref/date: **7556**  
Prepared by: **Tullipan Homes**



### Ceiling penetrations

(see following pages for details)

Sealed: **52**  
Unsealed: **0**  
TOTAL:\*\* **52**

\*\*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

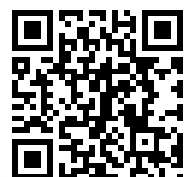
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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.



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## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
WID-006-04 A	WID-006-04 A AI Residential Sliding Window SG 638mm Comfort Plus	4.5	0.46
WID-005-04 A	WID-005-04 A AI Residential Internal Sliding Door SG 638mm Comfort Plus	4.4	0.44
WID-006-01 A	WID-006-01 A AI Residential Sliding Window SG 3mm Clear	6.4	0.76
WID-002-04 A	WID-002-04 A AI Residential Bi fold Door SG 6.38mm Comfort Plus	4.6	0.38

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Rumpus	WID-006-04 A	n/a	1200	1500	W	No Shading
Rumpus	WID-006-04 A	n/a	1200	1500	W	No Shading
Kitchen/Family/Living	WID-005-04 A	n/a	2400	4500	W	No Shading
Living	WID-006-04 A	n/a	2100	1000	E	No Shading
Living	WID-006-04 A	n/a	2100	1000	E	No Shading
Laundry	WID-006-01 A	n/a	900	600	N	No Shading
Study	WID-006-04 A	n/a	2100	1500	N	No Shading
Garage	WID-006-01 A	n/a	1200	1200	N	No Shading
Home Theatre	WID-002-04 A	n/a	2400	4500	E	No Shading
Home Theatre	WID-006-04 A	n/a	1700	1800	E	No Shading
Home Theatre	WID-006-04 A	n/a	300	1400	E	No Shading
Bedroom 2	WID-006-04 A	n/a	1200	1800	W	No Shading
Bedroom 3	WID-006-04 A	n/a	1200	1800	W	No Shading
Bedroom 1	WID-006-04 A	n/a	2100	1000	E	No Shading
Bedroom 1	WID-006-04 A	n/a	2100	1000	E	No Shading
Bedroom 4	WID-006-04 A	n/a	1200	1800	W	No Shading
Bath	WID-006-01 A	n/a	1000	1200	N	No Shading
WC	WID-006-01 A	n/a	900	600	N	No Shading
Ensuite	WID-006-01 A	n/a	1000	900	S	No Shading

### 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

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R2	No
EW-2	Single Skin Brick	No insulation	No

### External wall schedule

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Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Rumpus	EW-1	4595	2740	N	No	100
Rumpus	EW-1	4395	2740	W	No	100
Kitchen/Family/	EW-1	6995	2740	S	No	100
Kitchen/Family/	EW-1	7495	2740	W	No	100
Living	EW-1	3995	2740	E	No	500
Living	EW-1	5095	2740	S	No	100
Laundry	EW-1	1890	2740	N	No	100
Study	EW-1	3190	2740	N	No	100
Foyer	EW-1	2095	2740	E	No	3700
Foyer	EW-1	600	2740	S	No	4100
Garage	EW-2	5595	2825	N	No	100
Garage	EW-2	5500	2825	E	No	100
Garage	EW-2	2600	2825	S	No	2600
Garage	EW-2	295	2825	E	No	2700
Home Theatre	EW-1	4695	2740	N	No	600
Home Theatre	EW-1	5800	2740	E	No	600
Home Theatre	EW-1	600	2740	N	No	6400
Home Theatre	EW-1	2100	2740	E	No	500
Home Theatre	EW-1	600	2740	S	No	4600
Bedroom 2	EW-1	3695	2740	W	No	600
Bedroom 2	EW-1	4595	2740	S	No	600
Bedroom 3	EW-1	3990	2740	W	No	600
Bedroom 1	EW-1	3995	2740	E	No	600
Bedroom 1	EW-1	4895	2740	S	No	600
Bedroom 4	EW-1	4195	2740	W	No	600
Bedroom 4	EW-1	3595	2740	N	No	600
Bath	EW-1	2790	2740	N	No	600
WC	EW-1	990	2740	N	No	600
Ensuite	EW-1	2590	2740	S	No	600

## Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	218.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	24.0	Bulk Insulation, No Air Gap R2	No

## Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Rumpus	Waffle pod slab 300 mm 100mm	19.8	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Kitchen/Family/	Waffle pod slab 300 mm 100mm	57.5	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Living	Waffle pod slab 300 mm 100mm	20.0	None		

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

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Laundry	Waffle pod slab 300 mm 100mm	6.3	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Study	Waffle pod slab 300 mm 100mm	10.5	None	Waffle Pod 300mm	Ceramic Tiles 8mm
PDR	Waffle pod slab 300 mm 100mm	3.8	None	Waffle Pod 300mm	Carpet 10mm
Foyer	Waffle pod slab 300 mm 100mm	10.0	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Garage	Waffle pod slab 225 mm 100mm	31.3	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Home Theatre/Rumpus	Timber Above Plasterboard 19mm	2.5		Waffle Pod 225mm	Bare
Home Theatre/Kitchen/Family/	Timber Above Plasterboard 19mm	15.4		No Insulation	Cork Tiles or Parquetry 8mm
Home Theatre/Study	Timber Above Plasterboard 19mm	8.2		No Insulation	Cork Tiles or Parquetry 8mm
Home Theatre/PDR	Timber Above Plasterboard 19mm	4.1		No Insulation	Cork Tiles or Parquetry 8mm
Home Theatre/Foyer	Timber Above Plasterboard 19mm	10.3		No Insulation	Cork Tiles or Parquetry 8mm
Home Theatre/Garage	Timber Above Plasterboard 19mm	13.6		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2/Kitchen/Family/	Timber Above Plasterboard 19mm	18.0		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 3/Rumpus	Timber Above Plasterboard 19mm	0.7		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 3/Kitchen/Family/	Timber Above Plasterboard 19mm	12.3		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1/Living	Timber Above Plasterboard 19mm	19.2		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 4/Rumpus	Timber Above Plasterboard 19mm	14.8		No Insulation	Cork Tiles or Parquetry 8mm
Bath/Kitchen/Family/	Timber Above Plasterboard 19mm	0.5		No Insulation	Ceramic Tiles 8mm
Bath/Laundry	Timber Above Plasterboard 19mm	6.4		No Insulation	Ceramic Tiles 8mm
Bath/Study	Timber Above Plasterboard 19mm	2.4		No Insulation	Ceramic Tiles 8mm
WC/Rumpus	Timber Above Plasterboard 19mm	1.6		No Insulation	Ceramic Tiles 8mm
Ensuite/Kitchen/Family/	Timber Above Plasterboard 19mm	6.1		No Insulation	Ceramic Tiles 8mm
Ensuite/Living	Timber Above Plasterboard 19mm	0.5		No Insulation	Ceramic Tiles 8mm
WIR/Kitchen/Family/	Timber Above Plasterboard 19mm	4.0		No Insulation	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Rumpus	Timber Above Plasterboard	No Insulation	No

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Kitchen/Family/	Timber Above Plasterboard	No Insulation	No
Living	Timber Above Plasterboard	No Insulation	No
Laundry	Timber Above Plasterboard	No Insulation	No
Study	Timber Above Plasterboard	No Insulation	No
PDR	Timber Above Plasterboard	No Insulation	No
Foyer	Timber Above Plasterboard	No Insulation	No
Garage	Plasterboard	No insulation	No
Garage	Timber Above Plasterboard	No Insulation	No
Home Theatre	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 2	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 3	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 1	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 4	Plasterboard	Bulk Insulation R3.5	Yes
Bath	Plasterboard	Bulk Insulation R3.5	Yes
WC	Plasterboard	Bulk Insulation R3.5	Yes
Ensuite	Plasterboard	Bulk Insulation R3.5	Yes
WIR	Plasterboard	Bulk Insulation R3.5	Yes

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Rumpus	4	Downlights - LED	150	Sealed
Kitchen/Family/	12	Downlights - LED	150	Sealed
Living	4	Downlights - LED	150	Sealed
Study	2	Downlights - LED	150	Sealed
PDR	1	Exhaust Fans	300	Sealed
Foyer	2	Downlights - LED	150	Sealed
Home Theatre	10	Downlights - LED	150	Sealed
Bedroom 2	4	Downlights - LED	150	Sealed
Bedroom 3	4	Downlights - LED	150	Sealed
Bedroom 1	4	Downlights - LED	150	Sealed
Bedroom 4	4	Downlights - LED	150	Sealed
WIR	1	Downlights - LED	150	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

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#### Roof type

Construction	Added insulation	Roof colour
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Dark
Concrete	No Insulation, Only an Air Gap	Dark
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Dark

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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 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)