

Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0004765368

Certificate Date: 16 Apr 2020

★ Star rating: 5.9



Assessor details

Accreditation number: **20039**
Name: **David Howard**
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Phone: **0421381005**
Declaration of interest: **None**
Software: **BERS Pro v4.4.0.0 (3.21)**
AAO: **ABSA**

Overview

Dwelling details

Street: **Unit TH6, 122 Junction Rd**
Suburb: **Wahroonga**
State: **NSW** Postcode: **2076**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **305686** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**
Corrugated Iron
Suspended Concrete Slab
Insulation: **R1.5 wall insulation**
R1.5 ceiling insulation
R1.5 floor insulation
Glazing: **ALM-002-01 A Aluminium B SG Clear**

Net floor area (m²)

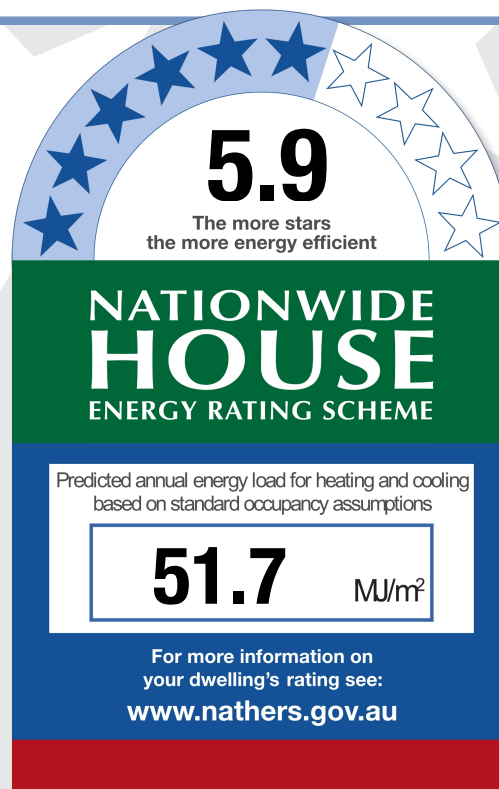
Conditioned: **110.0**
Unconditioned: **5.0**
Garage: **0.0**
TOTAL: **116.0**

Annual thermal performance loads (MJ/m²)

Heating: **30.1**
Cooling: **21.6**
TOTAL: **51.7**

Plan documents

Plan ref/date: **Project: P393**
Prepared by: **PTI Architecture**



Ceiling penetrations

(see following pages for details)

Sealed: **0**
Unsealed: **0**
TOTAL:** **0**

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: **Unknown**

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If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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
ALM-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70
VEL-011-01 W	VEL-011-01 W VELUX FS - Fixed Skylight DG 3mm LoE 366 / 8.5mm 2.6 Argon Gap / 5.36mm Clear La	2.6	0.24

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-01 A	n/a	2700	2000	E	No Shading
Kitchen/Living	ALM-002-01 A	n/a	2700	4700	W	No Shading
Kitchen/Living	ALM-002-01 A	n/a	1700	1200	N	No Shading
Bath	ALM-002-01 A	n/a	1200	1600	E	No Shading
Bedroom 2	ALM-002-01 A	n/a	1400	1700	W	No Shading
Bedroom 3	ALM-002-01 A	n/a	1400	1700	W	No Shading
Stairs Up	ALM-002-01 A	n/a	1200	1500	E	Vertical Louvres, Vertical Blades
Stairs Up	ALM-002-01 A	n/a	1200	800	E	No Shading

Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
VEL-011-01 W	VEL-011-01 W VELUX FS - Fixed Skylight DG 3mm LoE 366 / 8.5mm Argon Gap / 5.36mm Clear La	0.4	0.30
VEL-011-01 W	VEL-011-01 W VELUX FS - Fixed Skylight DG 3mm LoE 366 / 8.5mm Argon Gap / 5.36mm Clear La	2.6	0.24

Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
Kitchen/Living	VEL-011-01 W	1	0.9	W	No	No
Kitchen/Living	VEL-011-01 W	2	0.9	W	No	No
Kitchen/Living	VEL-011-01 W	3	0.9	W	No	No

External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Cavity Brick	Bulk Insulation R1.5	No
EW-2	Concrete Block	Bulk Insulation R2.5	No
EW-3	Brick Veneer	Anti-glare foil with bulk no gap R1.5	Yes

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3995	2700	E	No	1200
Kitchen/Living	EW-1	2500	2700	E	No	0
Kitchen/Living	EW-1	400	2700	S	No	4000
Kitchen/Living	EW-1	6500	2700	W	No	1300
Kitchen/Living	EW-1	8100	2700	N	No	0
Bath	EW-3	2395	2700	E	No	0

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Bedroom 2	EW-3	3395	2700	W	No	0
Bedroom 3	EW-3	3095	2700	W	No	0
Bedroom 3	EW-3	4300	2700	N	No	0
Bedroom 3	EW-3	300	2700	E	No	0
Stairs Up	EW-3	5295	2700	N	No	0
Stairs Up	EW-2	300	2700	E	No	0
Stairs Up	EW-3	2100	2700	E	No	0
Stairs Up	EW-3	3200	2700	S	No	0
Stairs Up	EW-3	1395	2700	E	No	0

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Concrete Panel/Blocks filled, 60.0 plasterboard		No Insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	84.0	No insulation	No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Suspended Concrete Slab 100mm	16.2	Enclosed	Bulk Insulation in Contact with Floor R1.5	Carpet+Rubber Underlay 18mm
WC1	Suspended Concrete Slab 150mm	6.3	Enclosed	Bulk Insulation in Contact with Floor R1.5	Ceramic Tiles 8mm
WC2	Suspended Concrete Slab 150mm	2.7	Enclosed	Bulk Insulation in Contact with Floor R1.5	Ceramic Tiles 8mm
Kitchen/Living	Suspended Concrete Slab 150mm	50.3	Enclosed	Bulk Insulation in Contact with Floor R1.5	Cork Tiles or Parquetry 8mm
Bath/Bedroom 1	Concrete Above Plasterboard 150mm	3.0		No Insulation	Ceramic Tiles 8mm
Bath/WC1	Concrete Above Plasterboard 150mm	2.4		No Insulation	Ceramic Tiles 8mm
Bedroom 2/WC1	Concrete Above Plasterboard 150mm	2.8		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2/WC2	Concrete Above Plasterboard 150mm	2.9		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2/Kitchen/Living	Concrete Above Plasterboard 150mm	6.9		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 3/Kitchen/Living	Concrete Above Plasterboard 150mm	13.0		No Insulation	Carpet+Rubber Underlay 18mm
Stairs Up/Bedroom	Concrete Above Plasterboard 150mm	1.9		No Insulation	Cork Tiles or Parquetry 8mm
Stairs Up/WC1	Concrete Above Plasterboard 150mm	1.2		No Insulation	Cork Tiles or Parquetry 8mm
Stairs Up/Kitchen/Living	Concrete Above Plasterboard 150mm	13.3		No Insulation	Cork Tiles or Parquetry 8mm

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Building features continued

Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	Bulk Insulation R1.5	Yes
Bedroom 1	Concrete Above Plasterboard	No Insulation	No
WC1	Plasterboard	Bulk Insulation R3	No
WC1	Concrete Above Plasterboard	No Insulation	No
WC2	Plasterboard	Bulk Insulation R3	No
WC2	Concrete Above Plasterboard	No Insulation	No
Kitchen/Living	Concrete, Plasterboard	Bulk Insulation R1.5	No
Kitchen/Living	Concrete Above Plasterboard	No Insulation	No
Bath	Plasterboard	Bulk Insulation R3	Yes
Bedroom 2	Plasterboard	Bulk Insulation R3	Yes
Bedroom 3	Plasterboard	Bulk Insulation R3	Yes
Stairs Up	Plasterboard	Bulk Insulation R3	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
None Present				

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Medium

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Additional information

Carpet is the default floor covering

Downlights must not penetrate ceiling insulation

Glazing should be selected based on U and SHGC values - not product description

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

For more information on energy efficient design and insulation visit www.yourhome.gov.au