

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 0YPAVCT9XE

Date of Certificate: 3 Jul 2017

★ Star rating: 5.4



Assessor details

Accreditation

number: 20594

Name: Suruchi Pathak

Organisation: Suruchi Pathak

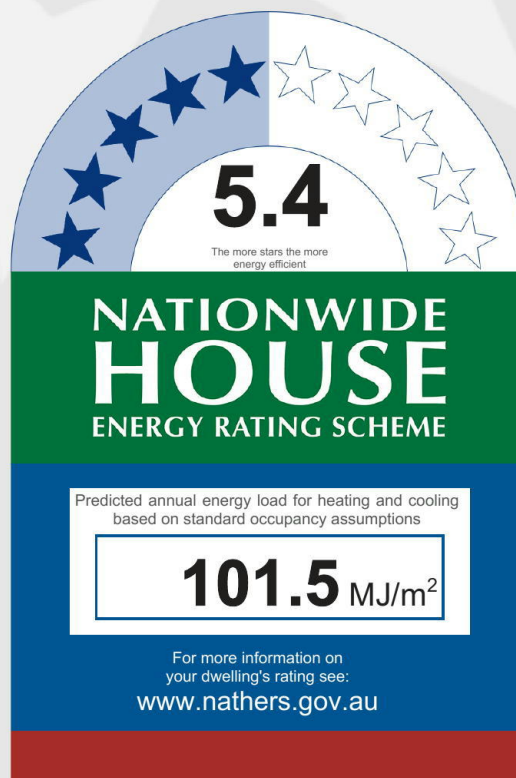
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Declaration of interest: No potential conflicts of interest to declare

Software: FirstRate5: 5.2.5 (3.13)

AAO: ABSA



Overview

Dwelling details

Address: TH1, Matthew Bell way

Suburb: Jordan Springs

State: NSW Postcode: 2747

Type: New Home NCC Class: Class 1a

Lot/DP number: 3799/1200053 NatHERS

Exposure: suburban climate zone: 28

Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer, Fibro Cement

Roof: Colorbond Metal Roof

Floor: CSOG, Suspended Timber

Insulation: Wall: R2.0

Roof: R4.0 & Foil under Roof

Floor: None

Glazing: Aluminium

SG High Solar Gain Low-e

Ceiling penetrations

(see following pages for details)

Sealed: 60

Unsealed: 0

TOTAL:** 60

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.

Net floor area (m²)

Conditioned: 261.9

Unconditioned: 23

Garage: 34.2

TOTAL: 319.1

Annual thermal performance loads (MJ/m²)

Heating: 53.8

Cooling: 47.7

TOTAL: 101.5

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If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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/QRCodeLand ing?PublicId=0YPAVCT9XE>

Plan documents

Plan ref/date: 15.003/Dated 03/07/17

Prepared by: Dziners Den Architects

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Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	Aluminium B SG High Solar Gain Low-E	5.4	0.58
ALM-001-03 A	Aluminium A SG High Solar Gain Low-E	5.4	0.49

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-03 A	Opening 21	2400	1500	ESE	Bed 1	No
ALM-002-03 A	Opening 21	2400	1500	NNE	Bed 1	No
ALM-002-03 A	Opening 21	2400	1200	NNE	Bathroom	No
ALM-002-03 A	Opening 21	2400	1500	SSW	Laundry	No
ALM-001-03 A	Opening 16	1500	900	SSW	Living	No
ALM-001-03 A	Opening 17	1500	880	SSW	Living	No
ALM-002-03 A	Opening 21	2400	3650	SSW	Kitchen/Living	No
ALM-002-03 A	Opening 21	2400	3650	NNE	Kitchen/Living	No
ALM-002-03 A	Opening 21	1350	600	ESE	Kitchen/Living	No
ALM-002-03 A	Opening 21	600	1350	NNE	Kitchen/Living	No
ALM-002-03 A	Opening 19	2400	1500	WNW	Kitchen/Living	No
ALM-002-03 A	Opening 20	2400	1500	WNW	Kitchen/Living	No
ALM-002-03 A	Opening 35	1500	900	ESE	Bedroom 2	No
ALM-002-03 A	Opening 34	1500	1800	NNE	Bedroom 2	No
ALM-002-03 A	Opening 43	600	1200	WNW	ENS	No
ALM-002-03 A	Opening 42	1500	1800	WNW	Bedroom 5	No
ALM-002-03 A	Opening 37	1500	1800	ESE	Bedrom 3	No
ALM-002-03 A	Opening 36	1500	3000	NNE	Family Room	No
ALM-001-03 A	Opening 40	1500	900	SSW	Family Room	No
ALM-001-03 A	Opening 41	1500	900	SSW	Family Room	No
ALM-002-03 A	Opening 38	600	1200	ESE	Bathroom	No
ALM-002-03 A	Opening 39	1500	1800	ESE	Bedroom 4	No

Roof windows and skylight type and performance value

ID	Window type	U-value	SHGC
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Roof window and skylight schedule

ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser
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* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

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External wall type

Type	Insulation	Wall wrap
1 : FR5 - Brick Veneer	Glass fibre batt: R2.0 (R2.0)	No
2 : FR5 - Fibro Clad Framed	Glass fibre batt: R2.0 (R2.0)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Veneer	0.8	SSW	Bed 1	Yes	No
1 : FR5 - Brick Veneer	8.8	ESE	Bed 1	No	Yes
1 : FR5 - Brick Veneer	10.9	NNE	Bed 1	No	Yes
1 : FR5 - Brick Veneer	3.6	WNW	Bathroom	Yes	Yes
1 : FR5 - Brick Veneer	4.8	NNE	Bathroom	No	Yes
1 : FR5 - Brick Veneer	3.1	ESE	Circulation	No	No
1 : FR5 - Brick Veneer	4.9	WNW	Garage	Yes	Yes
1 : FR5 - Brick Veneer	15.4	SSW	Garage	No	No
1 : FR5 - Brick Veneer	16.2	ESE	Garage	No	No
1 : FR5 - Brick Veneer	10.9	WNW	Laundry	No	Yes
1 : FR5 - Brick Veneer	6.3	SSW	Laundry	No	No
1 : FR5 - Brick Veneer	0.6	WNW	Laundry	Yes	No
1 : FR5 - Brick Veneer	3.3	NNE	Laundry	Yes	Yes
1 : FR5 - Brick Veneer	14.2	SSW	Living	No	No
1 : FR5 - Brick Veneer	4.9	ESE	Living	Yes	Yes
1 : FR5 - Brick Veneer	16.9	SSW	Kitchen/Living	Yes	Yes
1 : FR5 - Brick Veneer	17.3	NNE	Kitchen/Living	Yes	Yes
1 : FR5 - Brick Veneer	3.6	ESE	Kitchen/Living	Yes	Yes
1 : FR5 - Brick Veneer	17.6	NNE	Kitchen/Living	No	No
1 : FR5 - Brick Veneer	16.8	WNW	Kitchen/Living	Yes	Yes
2 : FR5 - Fibro Clad Framed	9.8	WNW	Bedroom 2	No	No
2 : FR5 - Fibro Clad Framed	3.2	ESE	Bedroom 2	Yes	Yes
2 : FR5 - Fibro Clad Framed	13.3	NNE	Bedroom 2	No	No
2 : FR5 - Fibro Clad Framed	7.3	WNW	ENS	No	No
2 : FR5 - Fibro Clad Framed	7.7	WNW	Bedroom 5	No	No
2 : FR5 - Fibro Clad Framed	13.3	SSW	Bedroom 5	No	No
2 : FR5 - Fibro Clad Framed	4.3	ESE	Bedroom 5	Yes	Yes
2 : FR5 - Fibro Clad Framed	3.2	WNW	Bedrom 3	Yes	Yes

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2 : FR5 - Fibro Clad Framed	9.8	ESE	Bedrom 3	No	No
2 : FR5 - Fibro Clad Framed	9.9	NNE	Bedrom 3	No	No
2 : FR5 - Fibro Clad Framed	15	NNE	Family Room	Yes	No
2 : FR5 - Fibro Clad Framed	14.9	SSW	Family Room	Yes	No
2 : FR5 - Fibro Clad Framed	5.1	ESE	Bathroom	No	No
2 : FR5 - Fibro Clad Framed	4.3	WNW	Bedroom 4	Yes	Yes
2 : FR5 - Fibro Clad Framed	9.9	SSW	Bedroom 4	No	No
2 : FR5 - Fibro Clad Framed	9.8	ESE	Bedroom 4	No	No

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	328.2	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bed 1	CSOG: Slab on Ground	7.7	Enclosed	0.0	Carpet
Bed 1	CSOG: Slab on Ground	5.5	Enclosed	0.0	Carpet
Bathroom	CSOG: Slab on Ground	5.7	Enclosed	0.0	Tiles
Circulation	CSOG: Slab on Ground	5	Enclosed	0.0	Tiles
Circulation	CSOG: Slab on Ground	1.6	Enclosed	0.0	Tiles
Garage	CSOG: Slab on Ground	25.6	Enclosed	0.0	none
Garage	CSOG: Slab on Ground	8.4	Enclosed	0.0	none
Laundry	CSOG: Slab on Ground	8	Enclosed	0.0	Tiles
Laundry	CSOG: Slab on Ground	1.7	Enclosed	0.0	Tiles
Living	CSOG: Slab on Ground	21.8	Enclosed	0.0	Carpet
Kitchen/Living	CSOG: Slab on Ground	85.2	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	4.5	Enclosed	0.0	Tiles
Bedroom 2	Timber	22.7	Enclosed	0.0	Carpet
ENS	Timber	4.7	Enclosed	0.0	Tiles
Bedroom 5	Timber	21.2	Enclosed	0.0	Carpet
Bedrom 3	Timber	16.8	Enclosed	0.0	Carpet
Family Room	Timber	56.8	Enclosed	0.0	Carpet
Bathroom	Timber	7.5	Enclosed	0.0	Tiles
Bedroom 4	Timber	16.8	Enclosed	0.0	Carpet

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Ceiling type

Location	Material	Added insulation	Roof space above
Bed 1	Plasterboard	0.0	No
Bed 1	Plasterboard	4.0	Yes
Bathroom	Plasterboard	0.0	No
Circulation	Plasterboard	0.0	No
Circulation	Plasterboard	0.0	No
Circulation	Plasterboard	0.0	No
Circulation	Plasterboard	4.0	Yes
Garage	Plasterboard	0.0	No
Garage	Plasterboard	0.0	No
Garage	Plasterboard	0.0	No
Garage	Plasterboard	0.0	No
Garage	Plasterboard	4.0	Yes
Laundry	Plasterboard	4.0	Yes
Laundry	Plasterboard	0.0	No
Laundry	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	4.0	Yes
Bedroom 2	Plasterboard	4.0	Yes
ENS	Plasterboard	4.0	Yes
Bedroom 5	Plasterboard	4.0	Yes
Bedroom 3	Plasterboard	4.0	Yes
Family Room	Plasterboard	4.0	Yes
Bathroom	Plasterboard	4.0	Yes
Bedroom 4	Plasterboard	4.0	Yes

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
Bed 1	4	Downlights	75	75	Sealed

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Bathroom	2	Downlights	75	75	Sealed
Bathroom	1	Exhaust Fans	180	180	Sealed
Circulation	2	Downlights	75	75	Sealed
Laundry	1	Exhaust Fans	180	180	Sealed
Living	4	Downlights	75	75	Sealed
Kitchen/Living	13	Downlights	75	75	Sealed
Kitchen/Living	1	Exhaust Fans	180	180	Sealed
Bedroom 2	6	Downlights	75	75	Sealed
ENS	2	Downlights	75	75	Sealed
Bedroom 5	7	Downlights	75	75	Sealed
Bedrom 3	4	Downlights	75	75	Sealed
Family Room	6	Downlights	75	75	Sealed
Bathroom	2	Downlights	75	75	Sealed
Bathroom	1	Exhaust Fans	180	180	Sealed
Bedroom 4	4	Downlights	75	75	Sealed

Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	0.0	light
Ceil: Ceiling	0.0	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

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