

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 7E8VXD2FMD

Date of Certificate: 3 Jul 2017

★ Star rating: 5.3



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: TH2, Matthew Bell way

Suburb: Jordan Springs

State: NSW

Postcode: 2747

Type: New Home

NCC Class: Class 1a

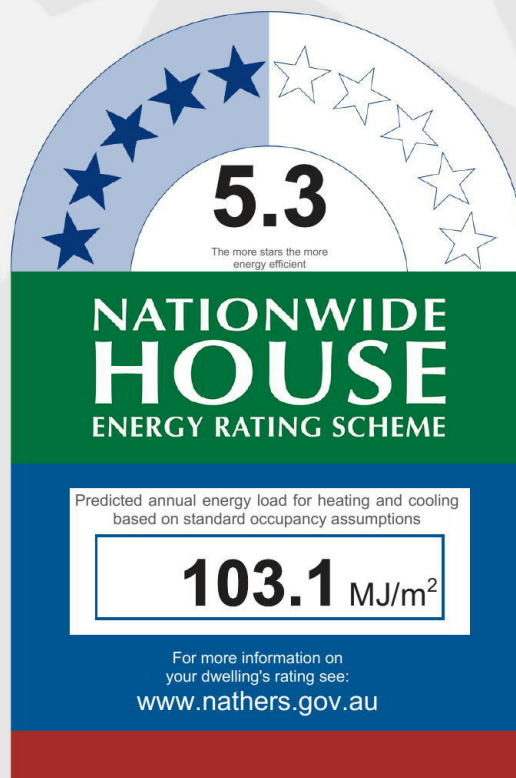
Lot/DP

NatHERS

number: 3799/1200053

climate zone: 28

Exposure: suburban



Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer, Fibro Cement

Roof: Colorbond Metal Roof

Floor: Concrete, Timber

Insulation: Wall: BV:R1.5, FC:R2.0

Roof: R4.0

Floor: None

Glazing: Aluminium

Single Clear

Ceiling penetrations

(see following pages for details)

Sealed: 48

Unsealed: 0

TOTAL: 48

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: 177.9

Unconditioned: 4.5

Garage: 34.5

TOTAL: 216.9

Annual thermal performance loads (MJ/m²)

Heating: 55

Cooling: 48.1

TOTAL: 103.1

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If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.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=7E8VXD2FMD>

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 56	600	1500	ESE	Bedroom 1	No
ALM-002-03 A	Opening 55	1500	1500	NNE	Bedroom 1	No
ALM-002-03 A	Opening 62	2400	1650	WNW	Living/Kitchen	No
ALM-002-03 A	Opening 46	2400	3600	ESE	Living/Kitchen	No
ALM-002-03 A	Opening 59	500	500	ESE	Living/Kitchen	No
ALM-002-03 A	Opening 58	500	1500	NNE	Living/Kitchen	No
ALM-002-03 A	Opening 60	300	300	WNW	Laundry	No
ALM-002-03 A	Opening 61	1500	1200	WNW	Laundry	No
ALM-002-03 A	Opening 82	600	1200	WNW	Ensuite	No
ALM-002-03 A	Opening 80	300	300	WNW	Bedroom 3	No
ALM-002-03 A	Opening 81	1500	1800	WNW	Bedroom 3	No
ALM-001-03 A	Opening 84	1500	900	ESE	Bedroom 4	No
ALM-002-03 A	Opening 83	1500	1800	NNE	Bedroom 4	No
ALM-002-03 A	Opening 86	1500	1800	ESE	Bedroom 5	No
ALM-002-03 A	Opening 85	600	1500	NNE	Bedroom 5	No
ALM-002-03 A	Opening 79	1500	1800	ESE	Bedroom 2	No
ALM-002-03 A	Opening 77	600	500	ESE	Circulation/Lobby	No
ALM-002-03 A	Opening 78	600	1500	NNE	Circulation/Lobby	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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External wall type

Type	Insulation	Wall wrap
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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	15.8	WNW	Garage	No	No
1 : FR5 - Brick Veneer	2.8	SSW	Garage	Yes	No
1 : FR5 - Brick Veneer	15.9	NNE	Garage	No	No
1 : FR5 - Brick Veneer	2.9	ESE	Circulation	Yes	No
1 : FR5 - Brick Veneer	5.7	NNE	Circulation	Yes	No
1 : FR5 - Brick Veneer	9.9	ESE	Bedroom 1	Yes	No
1 : FR5 - Brick Veneer	5.9	NNE	Bedroom 1	Yes	No
1 : FR5 - Brick Veneer	1.7	ESE	Bedroom 1	Yes	No
1 : FR5 - Brick Veneer	7.2	WNW	Living/Kitchen	Yes	Yes
1 : FR5 - Brick Veneer	23.6	SSW	Living/Kitchen	No	No
1 : FR5 - Brick Veneer	10.7	ESE	Living/Kitchen	No	Yes
1 : FR5 - Brick Veneer	4.1	NNE	Living/Kitchen	Yes	Yes
1 : FR5 - Brick Veneer	3.6	ESE	Living/Kitchen	Yes	Yes
1 : FR5 - Brick Veneer	8.2	NNE	Living/Kitchen	Yes	No
1 : FR5 - Brick Veneer	7	SSW	Bathroom	No	No
1 : FR5 - Brick Veneer	5.9	WNW	Laundry	Yes	Yes
1 : FR5 - Brick Veneer	5.7	SSW	Laundry	No	No
2 : FR5 - Fibro Clad Framed	7.8	WNW	Ensuite	No	No
2 : FR5 - Fibro Clad Framed	9.3	WNW	Bedroom 3	No	No
2 : FR5 - Fibro Clad Framed	13.3	SSW	Bedroom 3	No	No
2 : FR5 - Fibro Clad Framed	5	ESE	Bedroom 4	Yes	No
2 : FR5 - Fibro Clad Framed	13.3	NNE	Bedroom 4	No	Yes
2 : FR5 - Fibro Clad Framed	11.7	WNW	Bedroom 4	No	No
2 : FR5 - Fibro Clad Framed	9.9	ESE	Bedroom 5	Yes	No
2 : FR5 - Fibro Clad Framed	11.4	NNE	Bedroom 5	Yes	Yes
2 : FR5 - Fibro Clad Framed	5.8	SSW	Toilet	No	No
2 : FR5 - Fibro Clad Framed	13.4	SSW	Bedroom 2	No	No
2 : FR5 - Fibro Clad Framed	8.4	ESE	Bedroom 2	No	No
1 : FR5 - Brick Veneer	5.5	ESE	Circulation/Lobby	No	No
1 : FR5 - Brick Veneer	8.2	NNE	Circulation/Lobby	Yes	Yes

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Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	23.2	
2 : FR5 - Internal Plasterboard Stud Wall	281.6	
3 : FR5 - Internal Plasterboard Stud Wall	20.6	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Garage	CSOG: Slab on Ground	28.5	Enclosed	0.0	none
Garage	CSOG: Slab on Ground	5.8	Enclosed	0.0	none
Circulation	CSOG: Slab on Ground	3.1	Enclosed	0.0	Carpet
Circulation	CSOG: Slab on Ground	3	Enclosed	0.0	Carpet
Bedroom 1	CSOG: Slab on Ground	10.8	Enclosed	0.0	Carpet
Bedroom 1	CSOG: Slab on Ground	0.4	Enclosed	0.0	Carpet
Living/Kitchen	CSOG: Slab on Ground	46.4	Enclosed	0.0	Carpet
Living/Kitchen	CSOG: Slab on Ground	14	Enclosed	0.0	Tiles
Bathroom	CSOG: Slab on Ground	4.7	Enclosed	0.0	Tiles
Laundry	CSOG: Slab on Ground	4.5	Enclosed	0.0	Tiles
Ensuite	Timber	7.6	Enclosed	0.0	Tiles
Bedroom 3	Timber	17.5	Enclosed	0.0	Carpet
Bedroom 4	Timber	22	Enclosed	0.0	Carpet
Bedroom 5	Timber	14.8	Enclosed	0.0	Carpet
Toilet	Timber	6.7	Enclosed	0.0	Tiles
Bedroom 2	Timber	15.4	Enclosed	0.0	Carpet
Circulation/Lobby	Timber	20.8	Enclosed	0.0	Carpet

Ceiling type

Location	Material	Added insulation	Roof space above
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

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Circulation	Plasterboard	0.0	No
Circulation	Plasterboard	4.0	Yes
Bedroom 1	Plasterboard	0.0	No
Living/Kitchen	Plasterboard	0.0	No
Living/Kitchen	Plasterboard	0.0	No
Living/Kitchen	Plasterboard	0.0	No
Living/Kitchen	Plasterboard	0.0	No
Living/Kitchen	Plasterboard	0.0	No
Living/Kitchen	Plasterboard	0.0	No
Living/Kitchen	Plasterboard	0.0	No
Living/Kitchen	Plasterboard	0.0	No
Living/Kitchen	Plasterboard	0.0	No
Bathroom	Plasterboard	0.0	No
Laundry	Plasterboard	0.0	No
Ensuite	Plasterboard	4.0	Yes
Bedroom 3	Plasterboard	4.0	Yes
Bedroom 4	Plasterboard	4.0	Yes
Bedroom 5	Plasterboard	4.0	Yes
Toilet	Plasterboard	4.0	Yes
Bedroom 2	Plasterboard	4.0	Yes
Circulation/Lobby	Plasterboard	4.0	Yes

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
Circulation	3	Downlights	75	75	Sealed
Bedroom 1	4	Downlights	75	75	Sealed
Living/Kitchen	9	Downlights	75	75	Sealed
Living/Kitchen	1	Exhaust Fans	180	180	Sealed
Bathroom	2	Downlights	75	75	Sealed
Bathroom	1	Exhaust Fans	180	180	Sealed
Laundry	1	Exhaust Fans	180	180	Sealed
Ensuite	2	Downlights	75	75	Sealed
Bedroom 3	4	Downlights	75	75	Sealed
Bedroom 4	6	Downlights	75	75	Sealed
Bedroom 5	4	Downlights	75	75	Sealed
Toilet	2	Downlights	75	75	Sealed

* 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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Toilet	1	Exhaust Fans	180	180	Sealed
Bedroom 2	4	Downlights	75	75	Sealed
Circulation/Lobby	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	light

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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