

Nationwide House Energy Rating Scheme* Certificate



Certificate number: 0003328028

Certificate Date: 08 Nov 2018

★ Star rating: 5.3

BERS Pro v4.3.0.0 (3.13) cannot be used to model 'roof windows'. Roof windows are 'openable or fixed windows in a roof' and do not have a shaft, as distinct from skylights which incorporate a built-in shaft and are not ventilated. BERS Pro v4.3 can only model skylights. If a roof window is present on the floor plan then this certificate is not valid.

Assessor details

Accreditation

number: VIC/BDAV/12/1441

Name: Ian Fry

Organisation: Frys Energywise

Email: comply@frysenergywise.com.au

Phone: 02 9899 2825

Declaration of interest: The Assessor has provided design advice to the Applicant

Software: BERS Pro v4.3.0.2c (3.13)

AAO: BDAV

Overview

Dwelling details

Street: 60 Grandview Parade

Suburb: Mona Vale

State: NSW

Postcode: 2103

Type: New Dwelling

NCC Class: 1A

NatHERS

climate zone: 56

Lot/DP

number: 0/0

Exposure: Suburban

Key construction and insulation materials

(see following pages for details)

Construction: Fibro Cavity Panel Direct Fix
Waterproofing Membrane
Suspended Concrete Slab

Insulation: R2.5 wall insulation
No ceiling insulation
No floor insulation

Glazing: AL-039-01 A Aluminium Louvre
Window (WL) SG 6Clr

Net floor area (m²)

Conditioned: 248.0

Unconditioned: 93.0

Garage: 75.0

TOTAL: 342.0

Annual thermal performance loads (MJ/m²)

Heating: 37.2

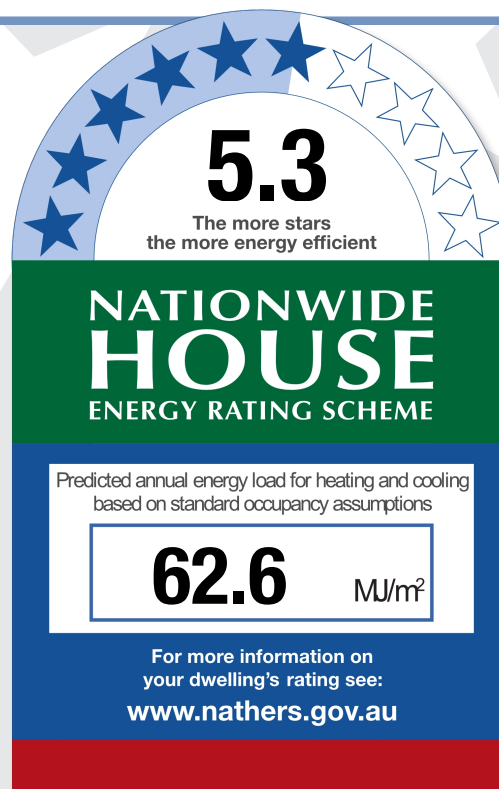
Cooling: 25.3

TOTAL: 62.6

Plan documents

Plan ref/date: Parker

Prepared by: DC



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
AL-039-01 A	AL-039-01 A Aluminium Louvre Window (WL) SG 6Clr	5.8	0.61
TND-024-04 A	TND-024-04 A Trend AI Internal offset glazed window SG 6.38CP	4.1	0.46
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.4	0.56
TND-031-05 A	TND-031-05 A Trend AI Internal offset glazed window DG LightBridge_ClrS0_4-10-4	2.3	0.52
TND-026-05 A	TND-026-05 A Trend AI Bi-Fold Door DG LightBridge_ClrS0_4-10-4	3.3	0.40
TND-071-11 A	TND-071-11 A Windsor Sliding Door SG 638CPClr	4.4	0.54
TND-020-05 A	TND-020-05 A Trend AI Double Hung Window SG 6.38CP	4.4	0.45
TND-024-01 A	TND-024-01 A Trend AI Internal offset glazed window SG 5Clr	6.1	0.75

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Entry	AL-039-01 A	n/a	2400	1000	SE	No Shading
Entry	TND-024-04 A	n/a	2400	2430	SE	No Shading
Entry	TIM-001-01 W	n/a	2400	1200	SW	No Shading
Home Office	AL-039-01 A	n/a	2400	840	SE	No Shading
Home Office	TND-024-04 A	n/a	2400	2430	SE	No Shading
Kitchen/Living	TND-031-05 A	n/a	2400	2650	NW	Vertical Louvres, Vertical Blades
Kitchen/Living	AL-039-01 A	n/a	2400	950	NW	Vertical Louvres, Vertical Blades
Kitchen/Living	AL-039-01 A	n/a	2400	800	NE	No Shading
Kitchen/Living	TND-026-05 A	n/a	2440	3730	NE	No Shading
Kitchen/Living	TND-031-05 A	n/a	2440	5300	NW	No Shading
Kitchen/Living	TND-024-04 A	n/a	2800	2430	SE	Vertical Louvres, Vertical Blades
Kitchen/Living	AL-039-01 A	n/a	2800	1000	SE	Vertical Louvres, Vertical Blades
Kitchen/Living	AL-039-01 A	n/a	1400	1000	SE	No Shading
Kitchen/Living	TND-031-05 A	n/a	1400	1400	SE	No Shading
Kitchen/Living	TND-026-05 A	n/a	2440	9200	SW	No Shading
Ldry	AL-039-01 A	n/a	1450	840	SE	No Shading
Shr 2	AL-039-01 A	n/a	1450	840	SE	No Shading
Retreat	TND-071-11 A	n/a	2440	3110	SW	No Shading
Retreat	TND-024-04 A	n/a	1400	1890	NW	Vertical Louvres, Vertical Blades
Retreat	TND-071-11 A	n/a	2140	2550	NE	No Shading
Bedroom 2	TND-024-04 A	n/a	600	2100	SE	No Shading
Bedroom 3	AL-039-01 A	n/a	1100	700	NW	No Shading
Bedroom 3	TND-024-04 A	n/a	1100	790	NW	No Shading
Bedroom 3	TND-024-04 A	n/a	1100	500	NE	No Shading
Bedroom 3	AL-039-01 A	n/a	1500	900	SE	No Shading
Bedroom 1	TND-071-11 A	n/a	2440	3110	SW	No Shading
Bedroom 1	TND-020-05 A	n/a	2440	790	SW	No Shading
WIR	AL-039-01 A	n/a	2250	1000	SE	No Shading
Ens	TND-024-01 A	n/a	600	2100	SE	Vertical Louvres, Vertical Blades
Bath	AL-039-01 A	n/a	1500	900	SE	No Shading

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Hall	TND-024-04 A	n/a	1100	6800	NW	No Shading
Kitchen/Living	TND-026-05 A	n/a	2440	2900	NW	No Shading
Kitchen/Living	TND-031-05 A	n/a	2440	1660	NW	No Shading
Kitchen/Living	TND-026-05 A	n/a	2440	2900	NE	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	Cavity Brick	No insulation	No
EW-2	Tilt up Concrete	No insulation	No
EW-3	Cavity Brick	Bulk Insulation R1.6	No
EW-4	Single Skin Brick	No insulation	No
EW-5	Reverse Brick Veneer	Bulk Insulation R2.5	No
EW-6	Fibro Cavity Panel Direct Fix	Bulk Insulation R2.5	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Garage 2	EW-1	3600	2750	NW	No	700
Garage 2	EW-1	2100	2400	SW	No	100
Garage 2	EW-1	3900	2400	NW	No	100
Garage 2	EW-2	2800	2400	NW	No	100
Garage 2	EW-2	2400	2400	NE	No	100
Garage 2	EW-3	800	2750	SE	No	8500
Garage 2	EW-3	3895	2750	NE	No	900
Garage 2	EW-1	7545	2750	SE	No	1800
Garage 2	EW-4	7000	2750	SW	No	1500
Entry	EW-3	2495	2750	NW	No	800
Entry	EW-3	4395	2750	SE	No	300
Entry	EW-3	1500	2750	SW	No	6600
Home Office	EW-3	3695	2750	NW	No	800
Home Office	EW-3	4300	2750	NE	No	800
Home Office	EW-3	3695	2750	SE	No	300
Kitchen/Living	EW-5	8500	2800	NW	No	100
Kitchen/Living	EW-5	4600	2800	NE	No	1200
Kitchen/Living	EW-5	6545	2800	NW	No	500
Kitchen/Living	EW-6	3845	2800	SE	No	900
Kitchen/Living	EW-5	300	2800	NE	No	14900

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Kitchen/Living	EW-5	7100	2800	SE	No	100
Kitchen/Living	EW-5	9200	2800	SW	No	2800
Ldry	EW-5	2245	2800	SE	No	100
Ldry	EW-5	300	2800	SW	No	13800
Shr 2	EW-5	1690	2800	SE	No	100
Retreat	EW-6	3195	2650	SW	No	1300
Retreat	EW-6	4400	2650	NW	No	600
Retreat	EW-6	500	2650	SW	No	5700
Retreat	EW-6	2800	2650	NW	No	100
Retreat	EW-6	3695	2650	NE	No	100
Bedroom 2	EW-6	3590	2650	SE	No	100
Bedroom 3	EW-6	3695	2650	NW	No	600
Bedroom 3	EW-6	4600	2650	NE	No	100
Bedroom 3	EW-6	3295	2650	SE	No	100
Bedroom 1	EW-6	3795	2650	SE	No	700
Bedroom 1	EW-6	3995	2650	SW	No	1300
WIR	EW-6	2195	2650	SE	No	100
WIR	EW-6	600	2650	SW	No	5100
Ens	EW-6	395	2650	SE	No	100
Ens	EW-6	2495	2650	SE	No	100
Bath	EW-6	3690	2650	SE	No	100
Hall	EW-6	8595	2650	NW	No	600
Kitchen/Living	EW-5	5945	2800	NW	No	6300
Kitchen/Living	EW-5	4600	2800	NE	No	900
Kitchen/Living	EW-5	5945	2800	SE	No	100

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	5.0	Bulk Insulation, No Air Gap R2	No
IW-2 - Cavity Brick	8.0	No insulation	No
IW-3 - Cavity wall, direct fix plasterboard, single gap	113.0	No insulation	No
IW-4 - Single Skin Brick	39.0	No insulation	No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Garage 2	Concrete Slab on Ground 100mm	75.2	None	No Insulation	Bare
Entry	Concrete Slab on Ground 100mm	18.5	None	No Insulation	Cork Tiles or Parquetry 8mm
Home Office	Concrete Slab on Ground 100mm	15.7	None	No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /Garage 2	Concrete Above Plasterboard 450mm	56.3		No Insulation	Cork Tiles or Parquetry 8mm

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Kitchen/Living /Entry	Concrete Above Plasterboard 450mm	18.8		No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living /Home Office	Concrete Above Plasterboard 450mm	6.9		No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living	Suspended Concrete Slab 450mm	13.5	Open	No Insulation	Cork Tiles or Parquetry 8mm
Ldry/Home Office	Concrete Above Plasterboard 450mm	4.3		No Insulation	Ceramic Tiles 8mm
Ldry	Suspended Concrete Slab 450mm	0.6	Open	No Insulation	Ceramic Tiles 8mm
Shr 2/Home Office	Concrete Above Plasterboard 450mm	4.0		No Insulation	Ceramic Tiles 8mm
Shr 2	Suspended Concrete Slab 450mm	1.6	Open	No Insulation	Ceramic Tiles 8mm
Retreat/Kitchen/Living	Concrete Above Plasterboard 350mm	19.7		No Insulation	Cork Tiles or Parquetry 8mm
Retreat	Suspended Concrete Slab 350mm	4.4	Open	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2/Shr 2	Concrete Above Plasterboard 19mm	1.3		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2/Kitchen/Living	Concrete Above Plasterboard 19mm	11.8		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 3/Kitchen/Living	Concrete Above Plasterboard 350mm	11.4		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 3	Suspended Concrete Slab 350mm	4.1	Open	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1/Kitchen/Living	Concrete Above Plasterboard 100mm	17.1		No Insulation	Cork Tiles or Parquetry 8mm
WIR/Kitchen/Living	Concrete Above Plasterboard 350mm	6.9		No Insulation	Cork Tiles or Parquetry 8mm
Ens/Kitchen/Living	Concrete Above Plasterboard 350mm	4.8		No Insulation	Ceramic Tiles 8mm
Ens/Ldry	Concrete Above Plasterboard 350mm	0.9		No Insulation	Ceramic Tiles 8mm
Ens	Suspended Concrete Slab 350mm	0.7	Open	No Insulation	Ceramic Tiles 8mm
Bath/Ldry	Concrete Above Plasterboard 100mm	4.2		No Insulation	Ceramic Tiles 8mm
Bath/Shr 2	Concrete Above Plasterboard 100mm	3.3		No Insulation	Ceramic Tiles 8mm
Hall/Kitchen/Living	Concrete Above Plasterboard 100mm	12.7		No Insulation	Cork Tiles or Parquetry 8mm
Hall/Shr 2	Concrete Above Plasterboard 100mm	1.2		No Insulation	Cork Tiles or Parquetry 8mm
Hall/Kitchen/Living	Concrete Above Plasterboard 100mm	3.7		No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living	Concrete Slab on Ground 100mm	27.3	None	No Insulation	Cork Tiles or Parquetry 8mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Garage 2	Concrete, Plasterboard	No insulation	No

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Garage 2	Concrete Above Plasterboard	No Insulation	No
Entry	Concrete Above Plasterboard	No Insulation	No
Home Office	Concrete Above Plasterboard	No Insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete Above Plasterboard	No Insulation	No
Ldry	Concrete Above Plasterboard	No Insulation	No
Shr 2	Concrete Above Plasterboard	No Insulation	No
Retreat	Plasterboard	Bulk Insulation R4	Yes
Bedroom 2	Plasterboard	Bulk Insulation R4	Yes
Bedroom 3	Plasterboard	Bulk Insulation R4	Yes
Bedroom 1	Plasterboard	Bulk Insulation R4	Yes
WIR	Plasterboard	Bulk Insulation R4	Yes
Ens	Plasterboard	Bulk Insulation R4	Yes
Bath	Plasterboard	Bulk Insulation R4	Yes
Hall	Plasterboard	Bulk Insulation R4	Yes
Kitchen/Living	Concrete Above Plasterboard	No Insulation	No

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
Waterproofing Membrane	No Insulation, Only an Air Gap	Light
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	Medium
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.3	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 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