

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0004030680**

Certificate Date: **18 Jul 2019**

★ Star rating: **7.1**

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 v4.3.0.2d (3.13)**

AAO: **BDAV**

Overview

Dwelling details

Street: **5A Iraga Place**

Suburb: **Forestville**

State: **NSW**

Postcode: **2087**

Type: **New Dwelling**

NCC Class: **1A**

NatHERS

climate zone: **56**

Lot/DP

number: **2/1248957**

Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**

Roof Tiles

Waffle pod slab 225 mm

Insulation:

R2.0 wall insulation

R4.0 ceiling insulation

No floor insulation

Glazing:

STG-007-01 A Aluminium Sliding

Window SG 3Clr

Net floor area (m²)

Conditioned: **135.0**

Unconditioned: **40.0**

Garage: **30.0**

TOTAL: **174.0**

Annual thermal performance loads (MJ/m²)

Heating: **23.1**

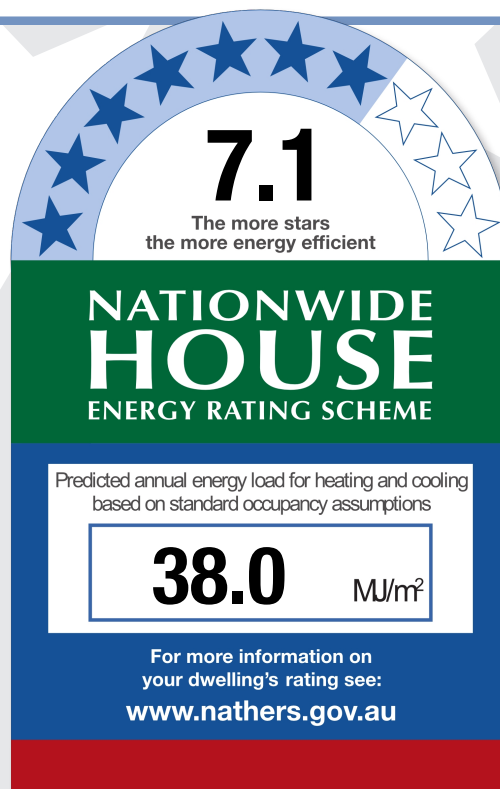
Cooling: **14.9**

TOTAL: **38.0**

Plan documents

Plan ref/date: **29913477**

Prepared by: **Clarendon Homes**



Ceiling penetrations

(see following pages for details)

Sealed: **2**

Unsealed: **0**

TOTAL:** **2**

****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
STG-002-01 A	STG-002-01 A Aluminium Awning Window SG 3Clr	6.5	0.65
STG-007-01 A	STG-007-01 A Aluminium Sliding Window SG 3Clr	6.3	0.73
STG-005-02 A	STG-005-02 A Aluminium Sliding Door SG 5Clr	6.3	0.72
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.4	0.56

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Main Suite	STG-002-01 A	n/a	1800	800	SW	No Shading
Main Suite	STG-002-01 A	n/a	1800	800	SW	No Shading
Ensuite	STG-007-01 A	n/a	1000	600	NW	No Shading
Kitchen Living	STG-007-01 A	n/a	1800	1200	NW	No Shading
Kitchen Living	STG-005-02 A	n/a	2100	3200	NW	No Shading
Kitchen Living	STG-007-01 A	n/a	1800	1200	NE	No Shading
Bed 2	STG-007-01 A	n/a	1200	1500	NE	No Shading
Laundry	TIM-001-01 W	n/a	2100	820	NE	No Shading
Bed 4	STG-007-01 A	n/a	1200	1800	NE	No Shading
Bed 4	STG-007-01 A	n/a	600	1500	SE	No Shading
Bed 3	STG-007-01 A	n/a	1200	1500	SE	No Shading
Bath	STG-007-01 A	n/a	1200	800	SE	No Shading
Home Theatre	STG-007-01 A	n/a	1200	1500	SE	No Shading
Pass 1	STG-002-01 A	n/a	1800	600	NW	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	Brick Veneer	No insulation	No
EW-3	Single Skin Brick	No insulation	No

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Main Suite	EW-1	3195	2600	NW	No	600
Main Suite	EW-1	1000	2600	SE	No	7400
Main Suite	EW-1	4300	2600	SW	No	600
Ensuite	EW-1	1890	2600	NW	No	600

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Kitchen Living	EW-1	7795	2600	NW	No	3600
Kitchen Living	EW-1	1900	2600	NE	No	600
Bed 2	EW-1	2895	2600	NW	No	600
Bed 2	EW-1	3695	2600	NE	No	600
Laundry	EW-1	1695	2600	NE	No	600
Laundry	EW-1	1895	2600	NW	No	600
Bed 4	EW-1	3795	2600	NE	No	600
Bed 4	EW-1	2895	2600	SE	No	600
Bed 3	EW-1	3090	2600	SE	No	600
Bath	EW-1	3290	2600	SE	No	600
Home Theatre	EW-1	2990	2600	SE	No	600
Pass 1	EW-1	1195	2600	NW	No	4300
Entry	EW-1	1290	2600	SW	No	1600
Garage	EW-2	5595	2675	SE	No	600
Garage	EW-3	5495	2675	SW	No	600

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	138.0	No insulation	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	29.0	Bulk Insulation, No Air Gap R2	No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Main Suite	Waffle pod slab 225 mm 100mm	16.9	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Ensuite	Waffle pod slab 225 mm 100mm	4.3	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Kitchen Living	Waffle pod slab 225 mm 100mm	53.5	None	Waffle Pod 225mm	80/20 Carpet 10mm/Ceramic
Bed 2	Waffle pod slab 225 mm 100mm	10.4	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Laundry	Waffle pod slab 225 mm 100mm	3.1	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bed 4	Waffle pod slab 225 mm 100mm	11.3	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bed 3	Waffle pod slab 225 mm 100mm	12.0	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bath	Waffle pod slab 225 mm 100mm	6.3	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Home Theatre	Waffle pod slab 225 mm 100mm	10.6	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Pass 1	Waffle pod slab 225 mm 100mm	5.2	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Pass 2	Waffle pod slab 225 mm 100mm	5.7	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Entry	Waffle pod slab 225 mm 100mm	4.9	None		

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Building features continued

Garage	Waffle pod slab 175 mm 100mm 30.3	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
			Waffle Pod 175mm	Bare

Ceiling type

Location	Construction	Added insulation	Roof space above
Main Suite	Plasterboard	Bulk Insulation R4	Yes
Ensuite	Plasterboard	Bulk Insulation R4	Yes
Kitchen Living	Plasterboard	Bulk Insulation R4	Yes
Bed 2	Plasterboard	Bulk Insulation R4	Yes
Laundry	Plasterboard	Bulk Insulation R4	Yes
Bed 4	Plasterboard	Bulk Insulation R4	Yes
Bed 3	Plasterboard	Bulk Insulation R4	Yes
Bath	Plasterboard	Bulk Insulation R4	Yes
Home Theatre	Plasterboard	Bulk Insulation R4	Yes
Pass 1	Plasterboard	Bulk Insulation R4	Yes
Pass 2	Plasterboard	Bulk Insulation R4	Yes
Entry	Plasterboard	Bulk Insulation R4	Yes
Garage	Plasterboard	No insulation	Yes

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ensuite	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
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Building features continued

Roof Tiles

Foil, Gap Above, Dark
Reflective Side
Down, Anti-glare
Up

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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