

Nationwide House Energy Rating Scheme* Certificate



Certificate number: **0005191838**

Certificate Date: **11 Sep 2020**

★ Star rating: **5.1**

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**
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Phone: **02 9899 2825**
Declaration of interest: **None**
Software: **BERS Pro v4.3.0.2f (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Street: **10 Puruna Place**
Suburb: **Cromer**
State: **NSW** Postcode: **2099**
Type: **New Dwelling** NCC Class: **1A**
NatHERS climate zone: **56**
Lot/DP number: **49/239139** Exposure: **Suburban**

Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**
Roof Tiles
Suspended Timber Floor
Insulation: **R2.0 wall insulation**
R3.5 ceiling insulation
No floor insulation
Glazing: **STG-007-03 A Aluminium Sliding Window SG 5Clr**

Net floor area (m²)

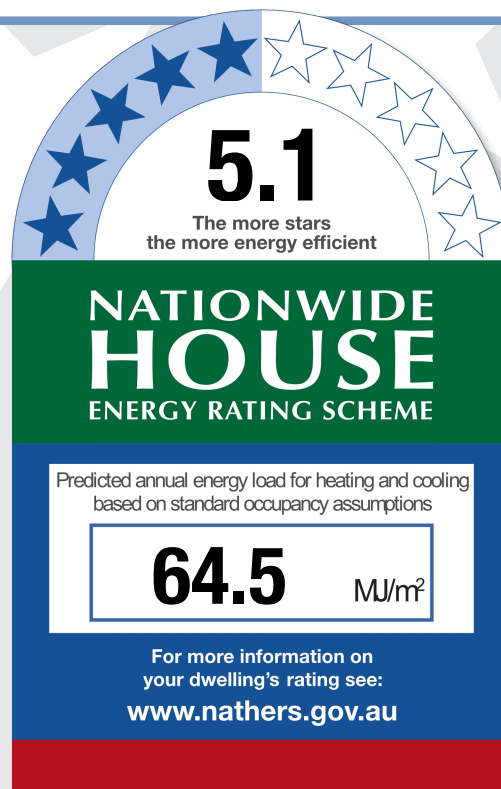
Conditioned: **154.0**
Unconditioned: **50.0**
Garage: **34.0**
TOTAL: **205.0**

Annual thermal performance loads (MJ/m²)

Heating: **41.8**
Cooling: **22.7**
TOTAL: **64.5**

Plan documents

Plan ref/date: **B1074 - Puruna Place**
Prepared by: **Hart Design**



Ceiling penetrations

(see following pages for details)

Sealed: **3**
Unsealed: **0**
TOTAL:** **3**

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-007-03 A	STG-007-03 A Aluminium Sliding Window SG 5Clr	6.3	0.71
STG-005-02 A	STG-005-02 A Aluminium Sliding Door SG 5Clr	6.3	0.72
ALM-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.7	0.57
STG-002-03 A	STG-002-03 A Aluminium Awning Window SG 5Clr	6.4	0.63

Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Garage	STG-007-03 A	n/a	1200	1200	E	No Shading
entry/rumpus	STG-007-03 A	n/a	1800	900	W	No Shading
entry/rumpus	STG-005-02 A	n/a	2100	2100	N	No Shading
entry/rumpus	STG-007-03 A	n/a	1200	1200	E	No Shading
Bath	STG-007-03 A	n/a	900	900	N	No Shading
ens	STG-007-03 A	n/a	1000	1000	W	No Shading
Bedroom 1	STG-007-03 A	n/a	1200	2400	S	No Shading
Bedroom 2	STG-007-03 A	n/a	1200	1400	S	No Shading
Bedroom 3	STG-007-03 A	n/a	1200	1800	N	No Shading
bath	STG-007-03 A	n/a	800	1500	N	No Shading
ldy	ALM-001-01 A	n/a	2100	800	N	No Shading
ldy	STG-002-03 A	n/a	900	600	N	No Shading
kit/din	STG-007-03 A	n/a	900	1500	N	No Shading
kit/din	STG-005-02 A	n/a	2100	2700	N	No Shading
living	STG-007-03 A	n/a	1200	1800	E	No Shading
living	STG-007-03 A	n/a	900	900	S	No Shading
living	STG-005-02 A	n/a	2100	2700	S	No Shading
Bedroom 4	STG-007-03 A	n/a	1200	1800	S	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 (m ²)	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	Cavity Brick	Foil Anti-glare one side and Reflective other of the Bulk Insulation R0.9	Yes
EW-3	Brick Veneer	Foil, Anti-glare one side + Bulk Insulation R2	Yes

External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves
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						(mm)
Garage	EW-1	1300	2450	W	No	2550
Garage	EW-1	6445	2450	E	No	100
Garage	EW-1	5400	2450	S	No	0
entry/rumpus	EW-2	1400	2450	W	No	100
entry/rumpus	EW-1	1595	2450	W	No	7600
entry/rumpus	EW-2	4195	2450	N	No	50
entry/rumpus	EW-2	4045	2450	E	No	100
entry/rumpus	EW-2	2395	2450	S	No	1300
Bath	EW-2	2555	2450	N	No	50
wir	EW-3	1745	2450	W	No	500
wir	EW-3	1895	2450	S	No	400
ens	EW-3	2040	2450	W	No	500
Bedroom 1	EW-3	3640	2450	S	No	400
Bedroom 2	EW-3	3240	2450	S	No	3100
Bedroom 3	EW-3	4095	2450	W	No	500
Bedroom 3	EW-3	2995	2450	N	No	400
bath	EW-3	2440	2450	N	No	400
ldy	EW-3	1990	2450	N	No	400
kit/din	EW-3	4095	2450	E	No	400
kit/din	EW-3	7845	2450	N	No	400
living	EW-3	3795	2450	E	No	400
living	EW-3	6495	2450	S	No	3100
Bedroom 4	EW-2	3895	2450	S	No	150
Bedroom 4	EW-1	3800	2450	W	No	3650
Bedroom 4	EW-1	3895	2450	N	No	4150
Storage	EW-1	2395	2450	W	No	7600
Storage	EW-2	1045	2450	N	No	50

Internal wall type

Wall type	Area (m ²)	Insulation	Wall wrap or foil
IW-1 - Brick Veneer	26.0	Bulk Insulation, No Air Gap R2	No
IW-2 - Single Skin Brick	30.0	No insulation	No
IW-3 - Cavity wall, direct fix plasterboard, single gap	110.0	No insulation	No

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Garage	Concrete Slab on Ground 100mm	33.9	None	No Insulation	Bare
entry/rumpus	Concrete Slab on Ground 100mm	34.3	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab on Ground 100mm	5.7	None	No Insulation	Ceramic Tiles 8mm
wir	Suspended Timber Floor 19mm	3.2	Enclosed	No Insulation	Carpet 10mm

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ens	Suspended Timber Floor 19mm	3.6	Enclosed	No Insulation	Ceramic Tiles 8mm
Bedroom 1/Bedroom 4	Timber Above Plasterboard 19mm	7.5		No Insulation	Carpet 10mm
Bedroom 1	Suspended Timber Floor 19mm	5.9	Enclosed	No Insulation	Carpet 10mm
Bedroom 2/entry/rumpus	Timber Above Plasterboard 19mm	4.9		No Insulation	Carpet 10mm
Bedroom 2/Bedroom 4	Timber Above Plasterboard 19mm	6.9		No Insulation	Carpet 10mm
Bedroom 3	Suspended Timber Floor 19mm	12.0	Enclosed	No Insulation	Carpet 10mm
bath	Suspended Timber Floor 19mm	6.1	Enclosed	No Insulation	Ceramic Tiles 8mm
Idy	Suspended Timber Floor 19mm	4.5	Enclosed	No Insulation	Ceramic Tiles 8mm
kit/din/entry/rumpus	Timber Above Plasterboard 19mm	23.0		No Insulation	Carpet 10mm
kit/din/Bath	Timber Above Plasterboard 19mm	6.0		No Insulation	Carpet 10mm
kit/din/Storage	Timber Above Plasterboard 19mm	2.6		No Insulation	Carpet 10mm
hall	Suspended Timber Floor 19mm	6.3	Enclosed	No Insulation	Carpet 10mm
living/Garage	Timber Above Plasterboard 19mm	20.1		No Insulation	Carpet 10mm
living/entry/rumpus	Timber Above Plasterboard 19mm	4.1		No Insulation	Carpet 10mm
Bedroom 4	Concrete Slab on Ground 100mm	14.8	None	No Insulation	Carpet+Rubber Underlay 18mm
Storage	Concrete Slab on Ground 100mm	2.5	None	No Insulation	Carpet+Rubber Underlay 18mm

Ceiling type

Location	Construction	Added insulation	Roof space above
Garage	Concrete, Plasterboard	No insulation	No
Garage	Timber Above Plasterboard	No Insulation	No
entry/rumpus	Concrete, Plasterboard	No insulation	No
entry/rumpus	Timber Above Plasterboard	No Insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Bath	Timber Above Plasterboard	No Insulation	No
wir	Plasterboard	Bulk Insulation R3.5	Yes
ens	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 1	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 2	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 3	Plasterboard	Bulk Insulation R3.5	Yes
bath	Plasterboard	Bulk Insulation R3.5	Yes
Idy	Plasterboard	Bulk Insulation	Yes

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kit/din	Plasterboard	R3.5	
		Bulk Insulation R3.5	Yes
hall	Plasterboard	Bulk Insulation R3.5	Yes
living	Plasterboard	Bulk Insulation R3.5	Yes
Bedroom 4	Concrete, Plasterboard	No insulation	No
Bedroom 4	Timber Above Plasterboard	No Insulation	No
Storage	Concrete, Plasterboard	No insulation	No
Storage	Timber Above Plasterboard	No Insulation	No

Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
ens	1	Exhaust Fans	300	Sealed
bath	1	Exhaust Fans	300	Sealed
ldy	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Number	Diameter (mm)
None Present		

Roof type

Construction	Added insulation	Roof colour
Waterproofing Membrane	No Insulation, Only an Air Gap	Medium
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	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 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