

Nationwide House Energy Rating Scheme* — Class 2 summary



Certificate Number: **850FLTNJZA**

Date of Certificate: **5 Nov 2019**

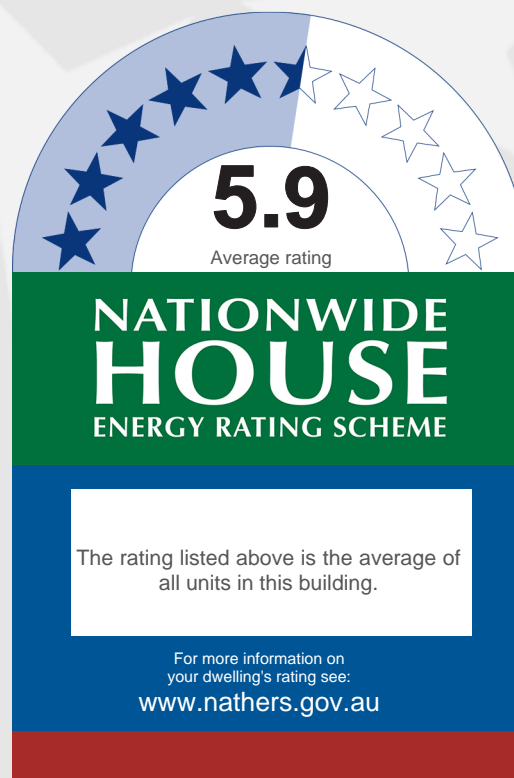
★ Average star rating: **5.9**

Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5 v5.2.11**
AAO: **BDAV**

Dwelling details

Address: **951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW**
Postcode: **2481**



Summary of all dwellings

Certification details

Certificate number	Unit number	Annual thermal performance loads (MJ/m2)			Star rating
		Heating load	Cooling load	Total load	
7IM3LPOIFL	04	21.1	22.9	44	5.9
J4GA3Y4AJQ	05	21.1	22.9	44	5.9
PA05J4MVG0	06	21.1	22.9	44	5.9
A9P9TPP0PW	07	21.1	22.9	44	5.9
ADJXRTHM9I	08	21.1	22.9	44	5.9
0A2EDZXEPU	09	21.1	24.1	45.2	5.8
A3HEVPMSQF	10	21.1	24.1	45.2	5.8
ATPRE1AVJL	11	21.1	24.1	45.2	5.8
XMXP9HK63	12	21.1	24.1	45.2	5.8
2LK4WH5EBB	13	21.1	24.1	45.2	5.8
HY54HGUL9L	14	21.1	22.9	44	5.9
YB4E7XGYZV	15	21.1	22.9	44	5.9
IBWXMZIU47	16	21.1	22.9	44	5.9
65TIE9R3LJ	17	20	23.1	43.1	5.9
BHPQ3FCIRS	24	21.1	25	46.1	5.7
79QCP3RWA7	25	20.7	25	45.7	5.7

continued

Nationwide House Energy Rating Scheme* — Class 2 summary



Certificate Number: **850FLTNJZA**

Date of Certificate: **5 Nov 2019**

★ Average star rating: **5.9**

Summary of all dwellings continued

Certification details continued

Certificate number	Unit number	Annual thermal performance loads (MJ/m2)			Star rating
		Heating load	Cooling load	Total load	
GMMPGM0BSV	26	20.3	16.6	36.9	6.6
JCX56ZPDO8	27	20.4	20	40.4	6.3

This building achieves an average star rating of: **5.9**

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **0A2EDZXEP**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**

Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **09, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

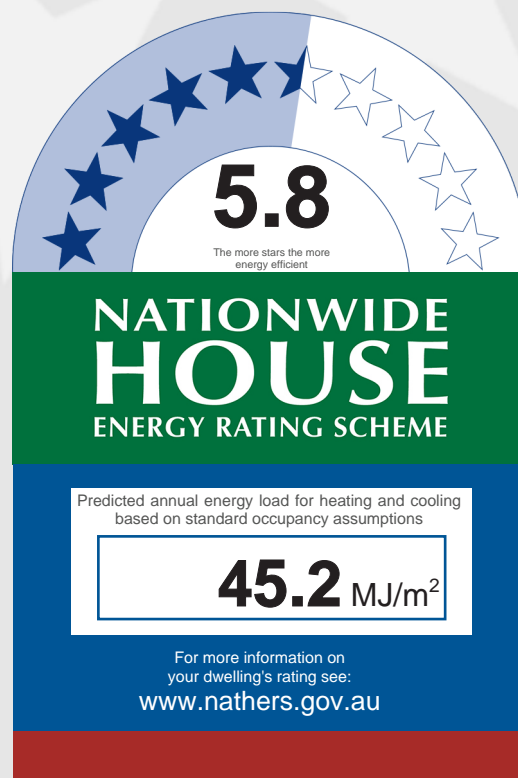
Conditioned: **151.9**
Unconditioned: **19.5**
Garage: **-**
TOTAL: **171.4**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **24.1**
TOTAL: **45.2**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

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.

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=0A2EDZXEP>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **0A2EDZXEP**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	SE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	WNW	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	SE	Dressing	No
A&L-003-01 A	Opening 6	600	450	WNW	Bathroom	No
A&L-003-01 A	Opening 7	600	900	WNW	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **0A2EDZXEP**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

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
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	S	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	WNW	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **0A2EDZXEPU**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**

Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	SSW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	S	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	SE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	WNW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

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Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : Internal - Plasterboard Stud Wall (w/ R2.0)	21.5	Glass fibre batt: R2.0 (R2.0)
2 : FR5 - Internal Plasterboard Stud Wall	126	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber

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Certificate Number: **0A2EDZXEPU**

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Building Features

Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber
Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **0A2EDZXEPU**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**

Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

Nationwide House Energy Rating Scheme* Certificate

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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

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 2LK4WH5EBB

Date of Certificate: 4 Nov 2019

★ Star rating: 5.8



Assessor details

Accreditation number: VIC/BDAV/14/1658
Name: Duncan Hope
Organisation: Senica Consultancy Group
Email: duncan@senica.com.au
Phone: 61280067784
Declaration of interest: Employed by organisation constructing the building
Software: FirstRate5: 5.2.11 (3.13)
AAO: BDAV

Overview

Dwelling details

Address: 13, 951 Broken Head Road
Suburb: BROKEN HEAD
State: NSW Postcode: 2481
Type: New Home NCC Class: Class 1a
Lot/DP number: 1//1031848 NatHERS climate zone: 10
Exposure: open

Key construction and insulation materials

(see following pages for details)

Construction: Wall: As indicated
Roof: As indicated
Floor: As indicated
Insulation: Wall: As indicated
Roof: As indicated
Floor: As indicated
Glazing: As indicated
As indicated

Net floor area (m²)

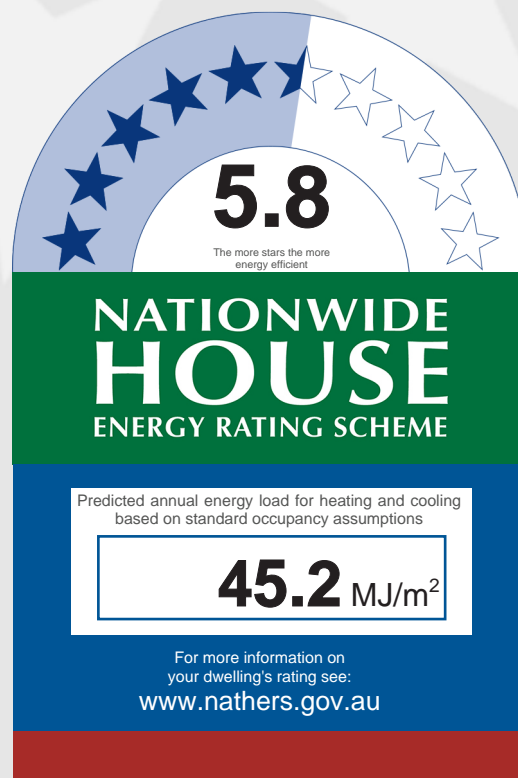
Conditioned: 151.9
Unconditioned: 19.5
Garage: -
TOTAL: 171.4

Annual thermal performance loads (MJ/m²)

Heating: 21.1
Cooling: 24.1
TOTAL: 45.2

Plan documents

Plan ref/date: HGA206 - Eco Tourism
Prepared by: Harley Graham Architects



Ceiling penetrations

(see following pages for details)

Sealed: 0
Unsealed: 0
TOTAL:** 0

Principal downlight type: Compact fluorescent

****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.

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.



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Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 2LK4WH5EBB

Date of Certificate: 4 Nov 2019

★ Star rating: 5.8



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	SE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	WNW	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	SE	Dressing	No
A&L-003-01 A	Opening 6	600	450	WNW	Bathroom	No
A&L-003-01 A	Opening 7	600	900	WNW	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 2LK4WH5EBB

Date of Certificate: 4 Nov 2019

★ Star rating: 5.8



Building Features

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
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

External wall type

Type	Insulation	Wall wrap
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	S	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	WNW	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 2LK4WH5EBB

Date of Certificate: 4 Nov 2019

★ Star rating: 5.8



Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	SSW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	S	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	SE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	WNW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **2LK4WH5EBB**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : Internal - Plasterboard Stud Wall (w/ R2.0)	21.5	Glass fibre batt: R2.0 (R2.0)
2 : FR5 - Internal Plasterboard Stud Wall	126	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **2LK4WH5EBB**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber
Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: 2LK4WH5EBB

Date of Certificate: 4 Nov 2019

★ Star rating: 5.8

Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 2LK4WH5EBB

Date of Certificate: 4 Nov 2019

★ Star rating: 5.8



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

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 7IM3LPOIFL

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Assessor details

Accreditation number: VIC/BDAV/14/1658
Name: Duncan Hope
Organisation: Senica Consultancy Group
Email: duncan@senica.com.au
Phone: 61280067784
Declaration of interest: Employed by organisation constructing the building
Software: FirstRate5: 5.2.11 (3.13)
AAO: BDAV

Overview

Dwelling details

Address: 04, 951 Broken Head Road
Suburb: BROKEN HEAD
State: NSW Postcode: 2481
Type: New Home NCC Class: Class 1a
Lot/DP number: 1//1031848 NatHERS climate zone: 10
Exposure: open

Key construction and insulation materials

(see following pages for details)

Construction: Wall: As indicated
Roof: As indicated
Floor: As indicated
Insulation: Wall: As indicated
Roof: As indicated
Floor: As indicated
Glazing: As indicated
As indicated

Net floor area (m²)

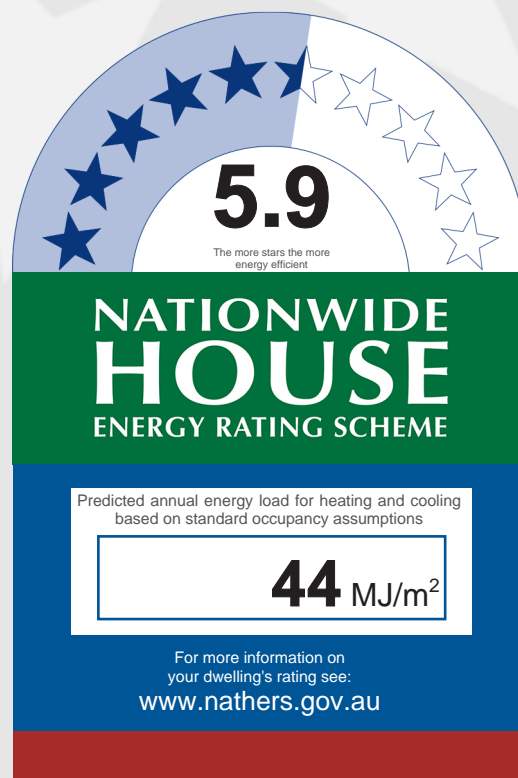
Conditioned: 151.9
Unconditioned: 19.5
Garage: -
TOTAL: 171.4

Annual thermal performance loads (MJ/m²)

Heating: 21.1
Cooling: 22.9
TOTAL: 44

Plan documents

Plan ref/date: HGA206 - Eco Tourism
Prepared by: Harley Graham Architects



Ceiling penetrations

(see following pages for details)

Sealed: 0
Unsealed: 0
TOTAL:** 0

Principal downlight type: Compact fluorescent

****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.

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/QRCodeLandIng?PublicId=7IM3LPOIFL>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 7IM3LPOIFL

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	W	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	ESE	Dressing	No
A&L-003-01 A	Opening 6	600	450	W	Bathroom	No
A&L-003-01 A	Opening 7	600	900	W	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 7IM3LPOIFL

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

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
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	SSE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	W	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 7IM3LPOIFL

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	S	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	SSE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	ESE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	W	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 7IM3LPOIFL

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	147.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 7IM3LPOIFL

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 7IM3LPOIFL

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

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Certificate Number: 7IM3LPOIFL

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Additional information

Explanatory notes

About this report

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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.

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Contact

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

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 65TIE9R3LJ

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Assessor details

Accreditation number: VIC/BDAV/14/1658
Name: Duncan Hope
Organisation: Senica Consultancy Group
Email: duncan@senica.com.au
Phone: 61280067784
Declaration of interest: Employed by organisation constructing the building
Software: FirstRate5: 5.2.11 (3.13)
AAO: BDAV

Overview

Dwelling details

Address: 17, 951 Broken Head Road
Suburb: BROKEN HEAD
State: NSW Postcode: 2481
Type: New Home NCC Class: Class 1a
Lot/DP number: 1//1031848 NatHERS climate zone: 10
Exposure: open

Key construction and insulation materials

(see following pages for details)

Construction: Wall: As indicated
Roof: As indicated
Floor: As indicated
Insulation: Wall: As indicated
Roof: As indicated
Floor: As indicated
Glazing: As indicated
As indicated

Net floor area (m²)

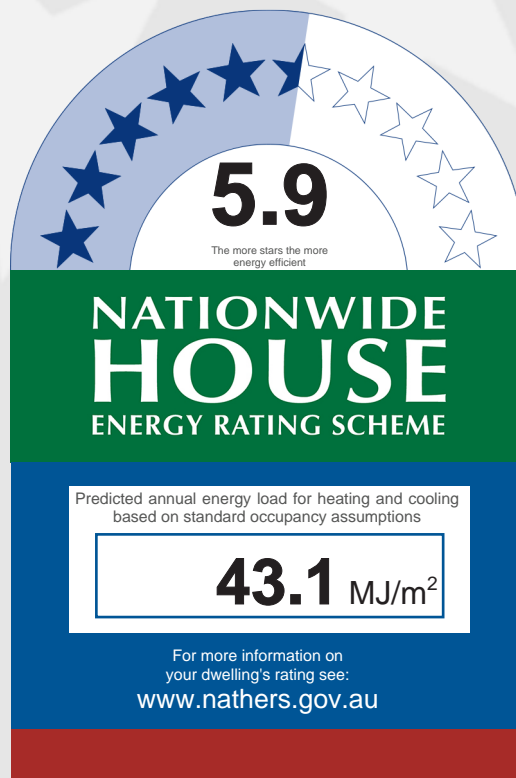
Conditioned: 151.9
Unconditioned: 19.5
Garage: -
TOTAL: 171.4

Annual thermal performance loads (MJ/m²)

Heating: 20
Cooling: 23.1
TOTAL: 43.1

Plan documents

Plan ref/date: HGA206 - Eco Tourism
Prepared by: Harley Graham Architects



Ceiling penetrations

(see following pages for details)

Sealed: 0
Unsealed: 0
TOTAL:** 0

Principal downlight type: Compact fluorescent

****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.

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/QRCodeLandIng?PublicId=65TIE9R3LJ>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 65TIE9R3LJ

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SSW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SSW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	ESE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	E	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	W	WC	No
A&L-003-01 A	Opening 32	1200	1200	S	Laundry	No
A&L-003-01 A	Opening 33	1200	300	S	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NNE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	E	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	E	Retreat	No
A&L-003-01 A	Opening 41	2400	300	E	Retreat	No
A&L-003-01 A	Opening 42	1500	600	N	Retreat	No
A&L-003-01 A	Opening 43	1500	450	W	Retreat	No
A&L-003-01 A	Opening 44	1500	900	N	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SSW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	ESE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	E	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	N	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SSW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	ESE	Dressing	No
A&L-003-01 A	Opening 6	600	450	W	Bathroom	No
A&L-003-01 A	Opening 7	600	900	W	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SSW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	ESE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	W	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NNE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	N	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	E	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 65TIE9R3LJ

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

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
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SSW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SSW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	SSE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	E	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	N	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	W	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	W	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	S	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	S	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	WNW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	N	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 65TIE9R3LJ

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	W	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	S	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NNE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	N	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	WNW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	E	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	N	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	W	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	N	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SSW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	ESE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	SSE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	E	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	N	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	S	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	ESE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	W	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	S	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SSW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **65TIE9R3LJ**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	ESE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	WNW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	N	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	W	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	S	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	N	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	WNW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	E	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	N	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	E	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	N	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	147.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 65TIE9R3LJ

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Building Features

Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate

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Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

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Disclaimer

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Nationwide House Energy Rating Scheme* Certificate

Certificate Number: 79QCP3RWA7

Date of Certificate: 4 Nov 2019

★ Star rating: 5.7



Assessor details

Accreditation number: VIC/BDAV/14/1658
Name: Duncan Hope
Organisation: Senica Consultancy Group
Email: duncan@senica.com.au
Phone: 61280067784
Declaration of interest: Employed by organisation constructing the building
Software: FirstRate5: 5.2.11 (3.13)
AAO: BDAV

Overview

Dwelling details

Address: 25, 951 Broken Head Road
Suburb: BROKEN HEAD
State: NSW Postcode: 2481
Type: New Home NCC Class: Class 1a
Lot/DP number: 1//1031848 NatHERS climate zone: 10
Exposure: open

Key construction and insulation materials

(see following pages for details)

Construction: Wall: As indicated
Roof: As indicated
Floor: As indicated
Insulation: Wall: As indicated
Roof: As indicated
Floor: As indicated
Glazing: As indicated
As indicated

Net floor area (m²)

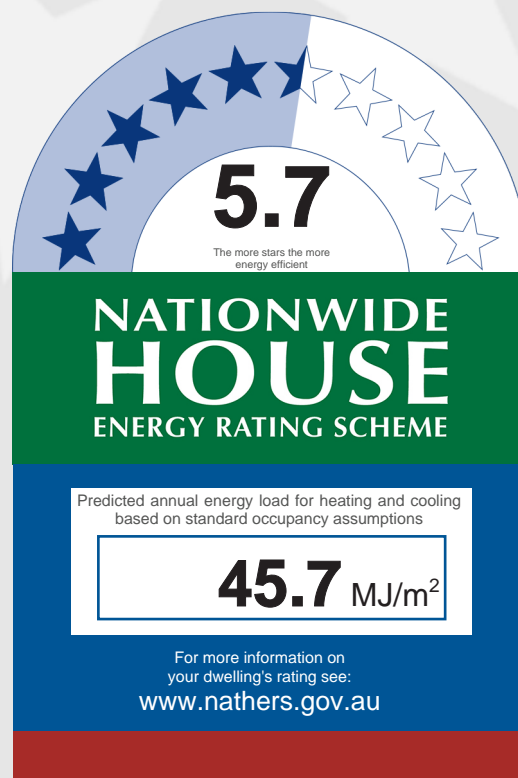
Conditioned: 48
Unconditioned: 6.7
Garage: -
TOTAL: 54.7

Annual thermal performance loads (MJ/m²)

Heating: 20.7
Cooling: 25
TOTAL: 45.7

Plan documents

Plan ref/date: HGA206 - Eco Tourism
Prepared by: Harley Graham Architects



Ceiling penetrations

(see following pages for details)

Sealed: 0
Unsealed: 0
TOTAL:** 0

Principal downlight type: Compact fluorescent

****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.

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/QRCodeLandIng?PublicId=79QCP3RWA7>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **79QCP3RWA7**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.7**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	15.06	1500	595	E	Bedroom	Yes
A&L-003-01 A	15.06	1500	595	W	Bedroom	No
A&L-003-01 A	15.035	1500	350	S	Bedroom	Yes
A&L-003-01 A	Opening 10	1500	1700	E	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.08	1500	800	E	Kitchen/Living/Sitting	No
A&L-012-04 A	21.20sd	2100	2000	E	Kitchen/Living/Sitting	Yes
A&L-003-01 A	06.20	600	2000	E	Kitchen/Living/Sitting	No
A&L-003-01 A	15.055	1500	555	E	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.21	1500	2100	N	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.11	1500	1100	S	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.08	1500	800	S	Kitchen/Living/Sitting	No
A&L-003-01 A	12.035	1200	350	W	Bath	Yes
A&L-003-01 A	12.035	1200	350	S	Bath	Yes

Roof windows and skylight type and performance value

ID	Window type	U-value	SHGC
----	-------------	---------	------

Roof window and skylight schedule

ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

External wall type

Type	Insulation	Wall wrap
1 : Colourbond - 90mm Colourbond Sheet with R1.5	Glass fibre batt: R1.5 (R1.5)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet	3.4	E	Bedroom	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **79QCP3RWA7**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.7**



Building Features

with R1.5

1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.7	W	Bedroom	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.3	S	Bedroom	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.7	E	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	4.2	W	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.9	N	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.9	E	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	5.1	N	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.1	E	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	16	N	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.1	W	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.9	N	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.9	W	Kitchen/Living/Sitting	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R1.5	1.7	S	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.9	W	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	15.6	S	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	6.4	W	Bath	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	6	S	Bath	Yes	No

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	26.7	

Floors

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **79QCP3RWA7**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.7**



Building Features

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom	FR5 - Timber Lined	13.8	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	11.1	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	16	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	7.1	Enclosed	R0.0	Timber
Bath	FR5 - Timber Lined	6.7	Enclosed	R0.0	Tiles

Ceiling type

Location	Material	Added insulation	Roof space above
Bedroom	Plasterboard	R2.0	Yes
Kitchen/Living/Sitting	Plasterboard	R2.0	Yes
Kitchen/Living/Sitting	Plasterboard	R2.0	No
Kitchen/Living/Sitting	Plasterboard	R2.0	Yes
Bath	Plasterboard	R2.0	Yes

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	0.0	dark
Framed:Flat - Flat Framed (Metal Deck)	0.0	dark

Nationwide House Energy Rating Scheme* Certificate

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Additional information

Explanatory notes

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Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A3HEVPMSQF**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **10, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

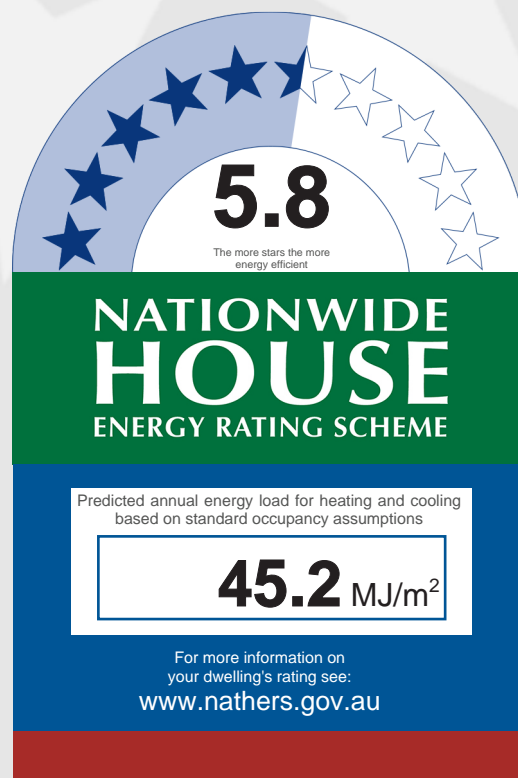
Conditioned: **151.9**
Unconditioned: **19.5**
Garage: **-**
TOTAL: **171.4**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **24.1**
TOTAL: **45.2**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

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.

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=A3HEVPMSQF>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A3HEVPMSQF**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	SE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	WNW	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	SE	Dressing	No
A&L-003-01 A	Opening 6	600	450	WNW	Bathroom	No
A&L-003-01 A	Opening 7	600	900	WNW	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A3HEVPMSQF**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

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
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	S	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	WNW	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A3HEVPMSQF**

Date of Certificate: **4 Nov 2019**

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Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	SSW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	S	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	SE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	WNW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A3HEVPMSQF**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : Internal - Plasterboard Stud Wall (w/ R2.0)	21.5	Glass fibre batt: R2.0 (R2.0)
2 : FR5 - Internal Plasterboard Stud Wall	126	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A3HEVPMSQF**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber
Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **A3HEVPMSQF**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**

Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
----------	--------	------	------------	-------------	----------------

Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

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Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **A9P9TPP0PW**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**

Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **07, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

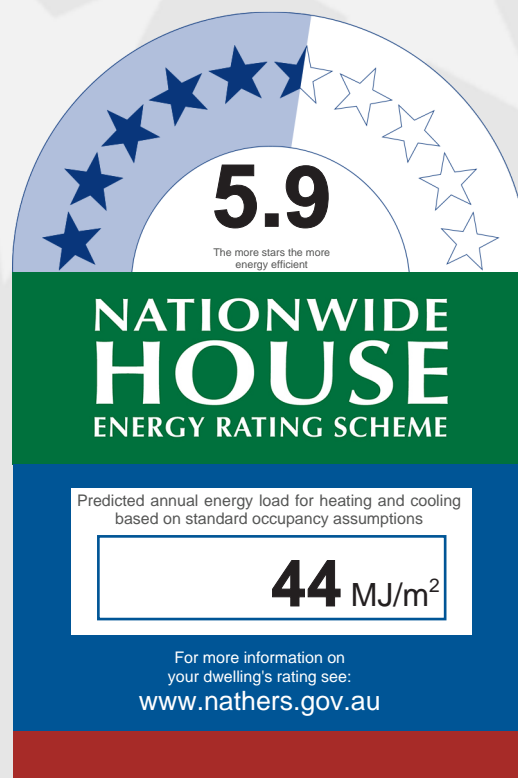
Conditioned: **151.9**
Unconditioned: **19.5**
Garage: **-**
TOTAL: **171.4**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **22.9**
TOTAL: **44**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

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.

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/QRCodeLandIng?PublicId=A9P9TPP0PW>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A9P9TPP0PW**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	W	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	ESE	Dressing	No
A&L-003-01 A	Opening 6	600	450	W	Bathroom	No
A&L-003-01 A	Opening 7	600	900	W	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A9P9TPP0PW**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

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
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

External wall type

Type	Insulation	Wall wrap
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	SSE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	W	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **A9P9TPP0PW**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**

Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	S	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	SSE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	ESE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	W	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A9P9TPP0PW**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	147.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **A9P9TPP0PW**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**

Building Features

Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **A9P9TPP0PW**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**

Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **A9P9TPP0PW**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



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

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ADJXRTHM9I**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **08, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

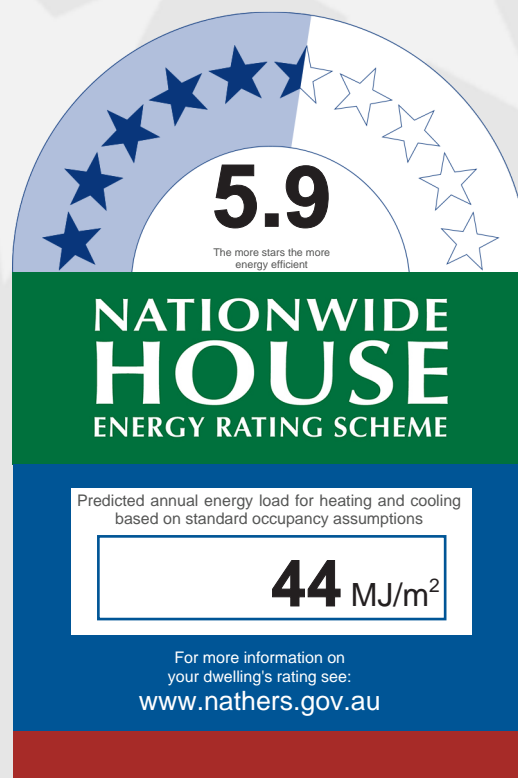
Conditioned: **151.9**
Unconditioned: **19.5**
Garage: **-**
TOTAL: **171.4**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **22.9**
TOTAL: **44**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

****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.

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/QRCodeLandIng?PublicId=ADJXRTHM9I>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ADJXRTHM9I**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	W	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	ESE	Dressing	No
A&L-003-01 A	Opening 6	600	450	W	Bathroom	No
A&L-003-01 A	Opening 7	600	900	W	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ADJXRTHM9I**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

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
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	SSE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	W	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ADJXRTHM9I**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	S	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	SSE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	ESE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	W	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ADJXRTHM9I**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	147.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ADJXRTHM9I**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ADJXRTHM9I**

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Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

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Additional information

Explanatory notes

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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.

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Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ATPRE1AVJL**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **11, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

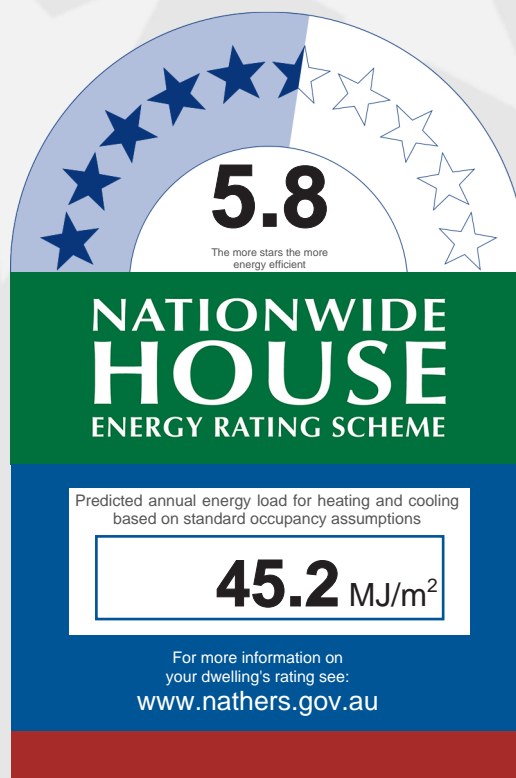
Conditioned: **151.9**
Unconditioned: **19.5**
Garage: **-**
TOTAL: **171.4**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **24.1**
TOTAL: **45.2**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

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.

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/QRCodeLandIng?PublicId=ATPRE1AVJL>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ATPRE1AVJL**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	SE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	WNW	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	SE	Dressing	No
A&L-003-01 A	Opening 6	600	450	WNW	Bathroom	No
A&L-003-01 A	Opening 7	600	900	WNW	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ATPRE1AVJL**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

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
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	S	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	WNW	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ATPRE1AVJL**

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Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	SSW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	S	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	SE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	WNW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **ATPRE1AVJL**

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Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : Internal - Plasterboard Stud Wall (w/ R2.0)	21.5	Glass fibre batt: R2.0 (R2.0)
2 : FR5 - Internal Plasterboard Stud Wall	126	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate

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Building Features

Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber
Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **ATPRE1AVJL**

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Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

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Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **BHPQ3FCIRS**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.7**



Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **24, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

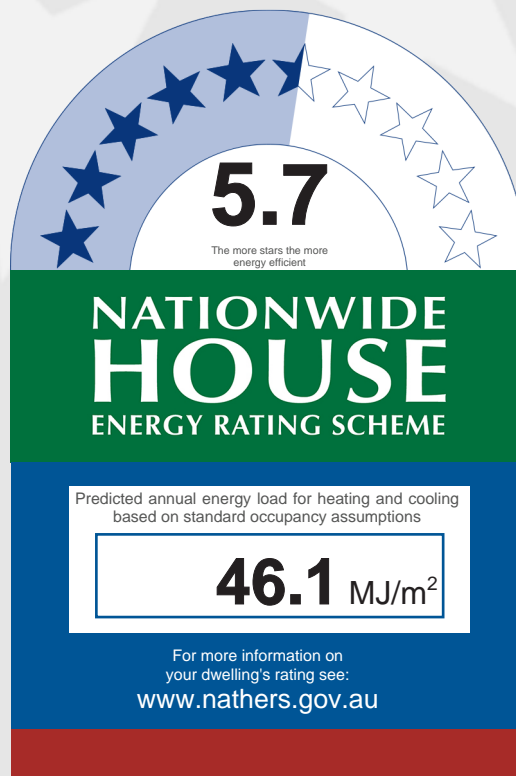
Conditioned: **48**
Unconditioned: **6.7**
Garage: **-**
TOTAL: **54.7**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **25**
TOTAL: **46.1**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

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.

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/QRCodeLandIng?PublicId=BHPQ3FCIRS>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **BHPQ3FCIRS**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.7**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	15.06	1500	595	E	Bedroom	Yes
A&L-003-01 A	15.06	1500	595	WNW	Bedroom	No
A&L-003-01 A	15.035	1500	350	SSW	Bedroom	Yes
A&L-003-01 A	Opening 10	1500	1700	ESE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.08	1500	800	ESE	Kitchen/Living/Sitting	No
A&L-012-04 A	21.20sd	2100	2000	ESE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	06.20	600	2000	ESE	Kitchen/Living/Sitting	No
A&L-003-01 A	15.055	1500	555	ESE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.21	1500	2100	NNE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.11	1500	1100	SSW	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.08	1500	800	SSW	Kitchen/Living/Sitting	No
A&L-003-01 A	12.035	1200	350	WNW	Bath	Yes
A&L-003-01 A	12.035	1200	350	SSW	Bath	Yes

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
1 : Colourbond - 90mm Colourbond Sheet with R1.5	Glass fibre batt: R1.5 (R1.5)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet	3.4	E	Bedroom	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **BHPQ3FCIRS**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.7**



Building Features

with R1.5

1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.7	WNW	Bedroom	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.3	SSW	Bedroom	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.7	ESE	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	4.2	WNW	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.9	NNE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.9	ESE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	5.1	NNE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.1	ESE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	16	NNE	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.1	WNW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.9	NNE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.9	WNW	Kitchen/Living/Sitting	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R1.5	1.7	SSW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.9	WNW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	15.6	SSW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	6.4	WNW	Bath	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	6	SSW	Bath	Yes	No

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	26.7	

Floors

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **BHPQ3FCIRS**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.7**



Building Features

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom	FR5 - Timber Lined	13.8	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	11.1	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	16	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	7.1	Enclosed	R0.0	Timber
Bath	FR5 - Timber Lined	6.7	Enclosed	R0.0	Tiles

Ceiling type

Location	Material	Added insulation	Roof space above
Bedroom	Plasterboard	R2.0	Yes
Kitchen/Living/Sitting	Plasterboard	R2.0	Yes
Kitchen/Living/Sitting	Plasterboard	R2.0	No
Kitchen/Living/Sitting	Plasterboard	R2.0	Yes
Bath	Plasterboard	R2.0	Yes

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	0.0	dark
Framed:Flat - Flat Framed (Metal Deck)	0.0	dark

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **BHPQ3FCIRS**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.7**



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

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **GMMPGM0BSV**

Date of Certificate: **4 Nov 2019**

★ Star rating: **6.6**



Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **26, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

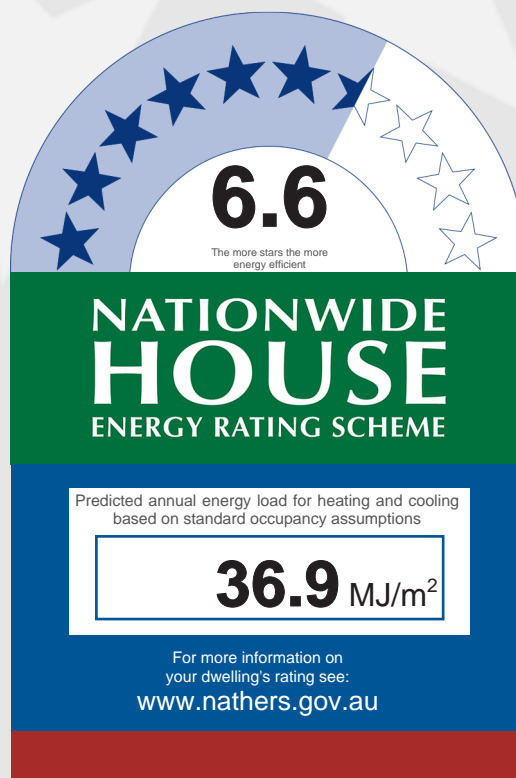
Conditioned: **48**
Unconditioned: **6.7**
Garage: **-**
TOTAL: **54.7**

Annual thermal performance loads (MJ/m²)

Heating: **20.3**
Cooling: **16.6**
TOTAL: **36.9**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

****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.

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/QRCodeLandIng?PublicId=GMMPGM0BSV>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **GMMPPGM0BSV**

Date of Certificate: **4 Nov 2019**

★ Star rating: **6.6**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	15.06	1500	595	ENE	Bedroom	Yes
A&L-003-01 A	15.06	1500	595	WSW	Bedroom	No
A&L-003-01 A	15.035	1500	350	SSE	Bedroom	Yes
A&L-003-01 A	Opening 10	1500	1700	ENE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.08	1500	800	ENE	Kitchen/Living/Sitting	No
A&L-012-04 A	21.20sd	2100	2000	ENE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	06.20	600	2000	ENE	Kitchen/Living/Sitting	No
A&L-003-01 A	15.055	1500	555	ENE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.21	1500	2100	NNW	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.11	1500	1100	SSE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.08	1500	800	SSE	Kitchen/Living/Sitting	No
A&L-003-01 A	12.035	1200	350	WSW	Bath	Yes
A&L-003-01 A	12.035	1200	350	SSE	Bath	Yes

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
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

External wall type

Type	Insulation	Wall wrap
1 : Colourbond - 90mm Colourbond Sheet with R1.5	Glass fibre batt: R1.5 (R1.5)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet	3.4	ENE	Bedroom	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **GMMPGM0BSV**

Date of Certificate: **4 Nov 2019**

★ Star rating: **6.6**



Building Features

with R1.5

1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.7	WSW	Bedroom	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.3	SSE	Bedroom	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.7	ENE	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	4.2	WSW	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.9	NNW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.9	ENE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	5.1	NNW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.1	ENE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	16	NNW	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.1	WSW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.9	NNW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.9	WSW	Kitchen/Living/Sitting	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R1.5	1.7	SSE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.9	WSW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	15.6	SSE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	6.4	WSW	Bath	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	6	SSE	Bath	Yes	No

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	26.7	

Floors

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **GMMPPGM0BSV**

Date of Certificate: **4 Nov 2019**

★ Star rating: **6.6**



Building Features

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom	FR5 - Timber Lined	13.8	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	11.1	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	16	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	7.1	Enclosed	R0.0	Timber
Bath	FR5 - Timber Lined	6.7	Enclosed	R0.0	Tiles

Ceiling type

Location	Material	Added insulation	Roof space above
Bedroom	Plasterboard	R2.0	Yes
Kitchen/Living/Sitting	Plasterboard	R2.0	Yes
Kitchen/Living/Sitting	Plasterboard	R2.0	No
Kitchen/Living/Sitting	Plasterboard	R2.0	Yes
Bath	Plasterboard	R2.0	Yes

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	0.0	dark
Framed:Flat - Flat Framed (Metal Deck)	0.0	dark

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **GMMPPGM0BSV**

Date of Certificate: **4 Nov 2019**

★ Star rating: **6.6**



Additional information

Explanatory notes

About this report

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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.

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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

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

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: HY54HGUL9L

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Assessor details

Accreditation number: VIC/BDAV/14/1658
Name: Duncan Hope
Organisation: Senica Consultancy Group
Email: duncan@senica.com.au
Phone: 61280067784
Declaration of interest: Employed by organisation constructing the building
Software: FirstRate5: 5.2.11 (3.13)
AAO: BDAV

Overview

Dwelling details

Address: 14, 951 Broken Head Road
Suburb: BROKEN HEAD
State: NSW Postcode: 2481
Type: New Home NCC Class: Class 1a
Lot/DP number: 1//1031848 NatHERS climate zone: 10
Exposure: open

Key construction and insulation materials

(see following pages for details)

Construction: Wall: As indicated
Roof: As indicated
Floor: As indicated
Insulation: Wall: As indicated
Roof: As indicated
Floor: As indicated
Glazing: As indicated
As indicated

Net floor area (m²)

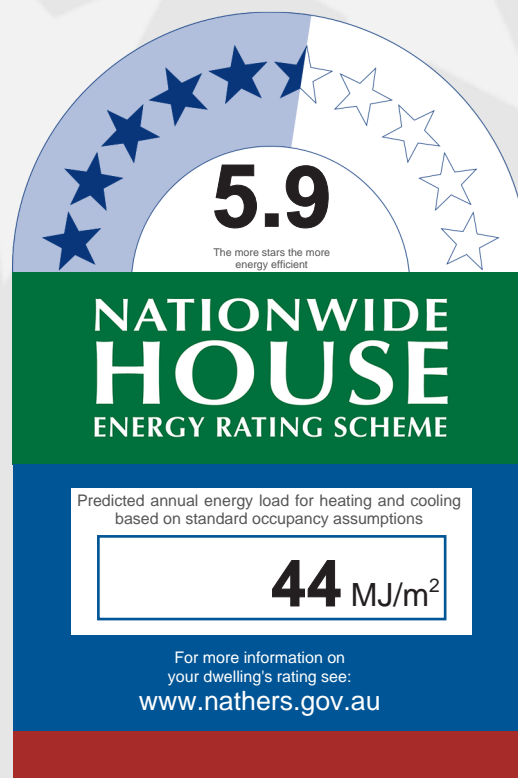
Conditioned: 151.9
Unconditioned: 19.5
Garage: -
TOTAL: 171.4

Annual thermal performance loads (MJ/m²)

Heating: 21.1
Cooling: 22.9
TOTAL: 44

Plan documents

Plan ref/date: HGA206 - Eco Tourism
Prepared by: Harley Graham Architects



Ceiling penetrations

(see following pages for details)

Sealed: 0
Unsealed: 0
TOTAL:** 0

Principal downlight type: Compact fluorescent

****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.

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=HY54HGUL9L>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **HY54HGUL9L**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	W	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	ESE	Dressing	No
A&L-003-01 A	Opening 6	600	450	W	Bathroom	No
A&L-003-01 A	Opening 7	600	900	W	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **HY54HGUL9L**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

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
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

External wall type

Type	Insulation	Wall wrap
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	SSE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	W	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **HY54HGUL9L**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	S	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	SSE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	ESE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	W	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **HY54HGUL9L**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	147.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **HY54HGUL9L**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **HY54HGUL9L**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**

Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: HY54HGUL9L

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★ Star rating: 5.9



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

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **IBWXMZIU47**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **16, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

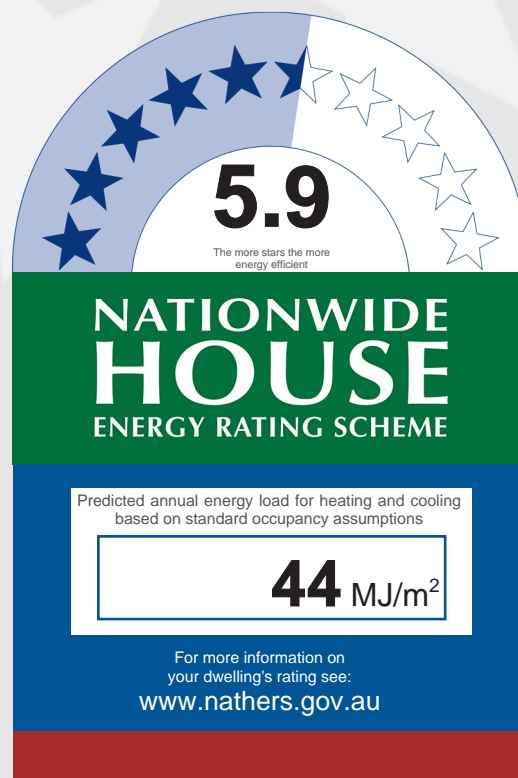
Conditioned: **151.9**
Unconditioned: **19.5**
Garage: **-**
TOTAL: **171.4**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **22.9**
TOTAL: **44**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

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.

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/QRCodeLandIng?PublicId=IBWXMZIU47>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **IBWXMZIU47**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	W	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	ESE	Dressing	No
A&L-003-01 A	Opening 6	600	450	W	Bathroom	No
A&L-003-01 A	Opening 7	600	900	W	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **IBWXMZIU47**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

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
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	SSE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	W	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **IBWXMZIU47**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	S	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	SSE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	ESE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	W	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **IBWXMZIU47**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	147.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **IBWXMZIU47**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **IBWXMZIU47**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

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Additional information

Explanatory notes

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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.

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Contact

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Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **J4GA3Y4AJQ**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **05, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

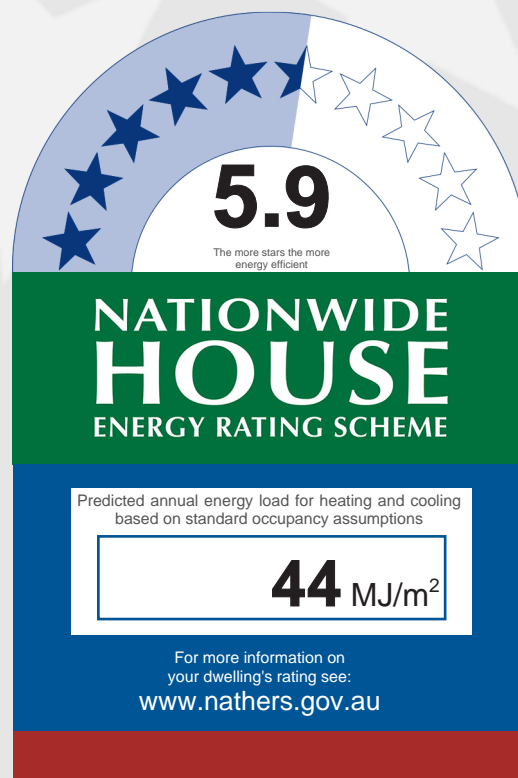
Conditioned: **151.9**
Unconditioned: **19.5**
Garage: **-**
TOTAL: **171.4**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **22.9**
TOTAL: **44**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

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.

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/QRCodeLandIng?PublicId=J4GA3Y4AJQ>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **J4GA3Y4AJQ**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	W	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	ESE	Dressing	No
A&L-003-01 A	Opening 6	600	450	W	Bathroom	No
A&L-003-01 A	Opening 7	600	900	W	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **J4GA3Y4AJQ**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

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
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

External wall type

Type	Insulation	Wall wrap
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	SSE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	W	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **J4GA3Y4AJQ**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	S	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	SSE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	ESE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	W	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

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Date of Certificate: **4 Nov 2019**

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Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	147.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber

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Building Features

Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
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Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate

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Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

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Nationwide House Energy Rating Scheme* Certificate

Certificate Number: JCX56ZPDO8

Date of Certificate: 4 Nov 2019

★ Star rating: 6.3



Assessor details

Accreditation number: VIC/BDAV/14/1658
Name: Duncan Hope
Organisation: Senica Consultancy Group
Email: duncan@senica.com.au
Phone: 61280067784
Declaration of interest: Employed by organisation constructing the building
Software: FirstRate5: 5.2.11 (3.13)
AAO: BDAV

Overview

Dwelling details

Address: 27, 951 Broken Head Road
Suburb: BROKEN HEAD
State: NSW Postcode: 2481
Type: New Home NCC Class: Class 1a
Lot/DP number: 1//1031848 NatHERS climate zone: 10
Exposure: open

Key construction and insulation materials

(see following pages for details)

Construction: Wall: As indicated
Roof: As indicated
Floor: As indicated
Insulation: Wall: As indicated
Roof: As indicated
Floor: As indicated
Glazing: As indicated
As indicated

Net floor area (m²)

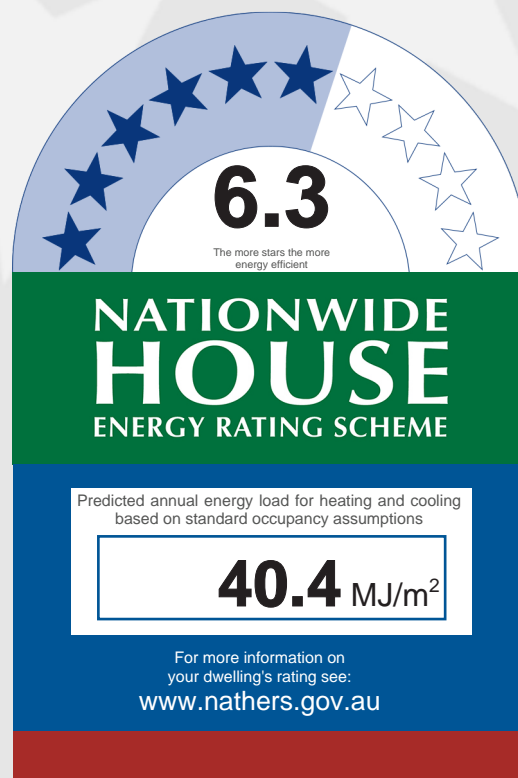
Conditioned: 48
Unconditioned: 6.7
Garage: -
TOTAL: 54.7

Annual thermal performance loads (MJ/m²)

Heating: 20.4
Cooling: 20
TOTAL: 40.4

Plan documents

Plan ref/date: HGA206 - Eco Tourism
Prepared by: Harley Graham Architects



Ceiling penetrations

(see following pages for details)

Sealed: 0
Unsealed: 0
TOTAL:** 0

Principal downlight type: Compact fluorescent

****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.

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.

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Scan to access this certificate online and confirm this is valid.



<https://www.fr5.com.au/QRCodeLand ing?PublicId=JCX56ZPDO8>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: JCX56ZPDO8

Date of Certificate: 4 Nov 2019

★ Star rating: 6.3



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	15.06	1500	595	ENE	Bedroom	Yes
A&L-003-01 A	15.06	1500	595	WSW	Bedroom	No
A&L-003-01 A	15.035	1500	350	SSE	Bedroom	Yes
A&L-003-01 A	Opening 10	1500	1700	ENE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.08	1500	800	ENE	Kitchen/Living/Sitting	No
A&L-012-04 A	21.20sd	2100	2000	ENE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	06.20	600	2000	ENE	Kitchen/Living/Sitting	No
A&L-003-01 A	15.055	1500	555	ENE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.21	1500	2100	NNW	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.11	1500	1100	SSE	Kitchen/Living/Sitting	Yes
A&L-003-01 A	15.08	1500	800	SSE	Kitchen/Living/Sitting	No
A&L-003-01 A	12.035	1200	350	WSW	Bath	Yes
A&L-003-01 A	12.035	1200	350	SSE	Bath	Yes

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
1 : Colourbond - 90mm Colourbond Sheet with R1.5	Glass fibre batt: R1.5 (R1.5)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet	3.4	ENE	Bedroom	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: JCX56ZPDO8

Date of Certificate: 4 Nov 2019

★ Star rating: 6.3



Building Features

with R1.5

1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.7	WSW	Bedroom	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.3	SSE	Bedroom	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.7	ENE	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	4.2	WSW	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.9	NNW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	10.9	ENE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	5.1	NNW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.1	ENE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	16	NNW	Kitchen/Living/Sitting	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.1	WSW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.9	NNW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	2.9	WSW	Kitchen/Living/Sitting	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R1.5	1.7	SSE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	3.9	WSW	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	15.6	SSE	Kitchen/Living/Sitting	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	6.4	WSW	Bath	No	No
1 : Colourbond - 90mm Colourbond Sheet with R1.5	6	SSE	Bath	Yes	No

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	26.7	

Floors

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: JCX56ZPDO8

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★ Star rating: 6.3



Building Features

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom	FR5 - Timber Lined	13.8	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	11.1	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	16	Enclosed	R0.0	Timber
Kitchen/Living/Sitting	FR5 - Timber Lined	7.1	Enclosed	R0.0	Timber
Bath	FR5 - Timber Lined	6.7	Enclosed	R0.0	Tiles

Ceiling type

Location	Material	Added insulation	Roof space above
Bedroom	Plasterboard	R2.0	Yes
Kitchen/Living/Sitting	Plasterboard	R2.0	Yes
Kitchen/Living/Sitting	Plasterboard	R2.0	No
Kitchen/Living/Sitting	Plasterboard	R2.0	Yes
Bath	Plasterboard	R2.0	Yes

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	0.0	dark
Framed:Flat - Flat Framed (Metal Deck)	0.0	dark

Nationwide House Energy Rating Scheme* Certificate

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Additional information

Explanatory notes

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Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **PA05J4MVG0**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **06, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

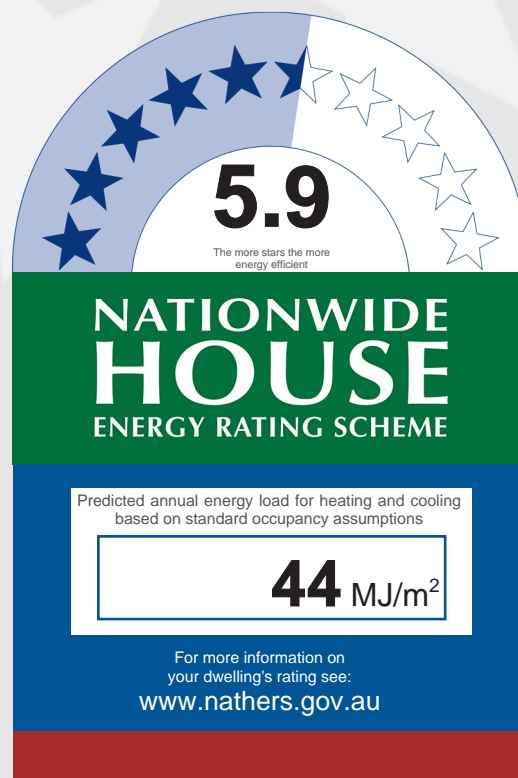
Conditioned: **151.9**
Unconditioned: **19.5**
Garage: **-**
TOTAL: **171.4**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **22.9**
TOTAL: **44**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

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.

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/QRCodeLandIng?PublicId=PA05J4MVG0>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **PA05J4MVG0**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	W	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	ESE	Dressing	No
A&L-003-01 A	Opening 6	600	450	W	Bathroom	No
A&L-003-01 A	Opening 7	600	900	W	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **PA05J4MVG0**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.9**



Building Features

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
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	SSE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	W	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

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Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	S	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	SSE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	ESE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	W	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

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Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	147.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate

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Building Features

Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **PA05J4MVG0**

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★ Star rating: **5.9**

Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
----------	--------	---------------

Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

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Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **XMXT9HK63**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**

Assessor details

Accreditation number: **VIC/BDAV/14/1658**
Name: **Duncan Hope**
Organisation: **Senica Consultancy Group**
Email: **duncan@senica.com.au**
Phone: **61280067784**
Declaration of interest: **Employed by organisation constructing the building**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **BDAV**

Overview

Dwelling details

Address: **12, 951 Broken Head Road**
Suburb: **BROKEN HEAD**
State: **NSW** Postcode: **2481**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **1//1031848** NatHERS climate zone: **10**
Exposure: **open**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Insulation: Wall: **As indicated**
Roof: **As indicated**
Floor: **As indicated**
Glazing: **As indicated**
As indicated

Net floor area (m²)

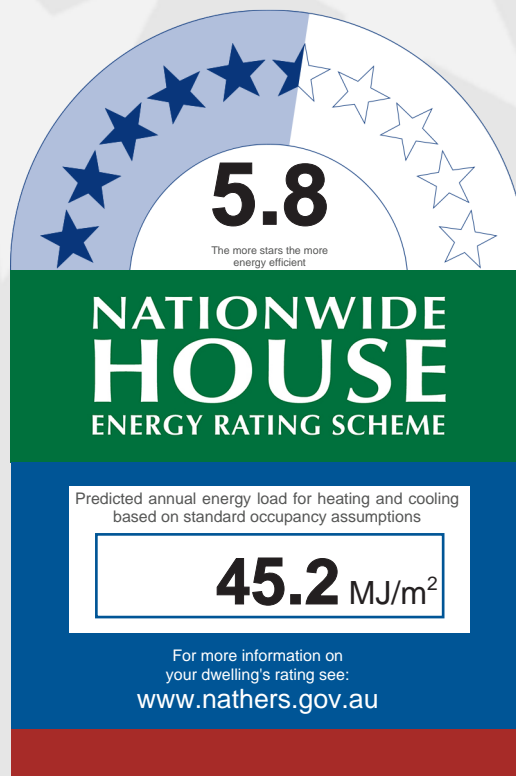
Conditioned: **151.9**
Unconditioned: **19.5**
Garage: **-**
TOTAL: **171.4**

Annual thermal performance loads (MJ/m²)

Heating: **21.1**
Cooling: **24.1**
TOTAL: **45.2**

Plan documents

Plan ref/date: **HGA206 - Eco Tourism**
Prepared by: **Harley Graham Architects**



Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **Compact fluorescent**

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.

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=XMXT9HK63>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **XMXT9HK63**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	SE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	WNW	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	SE	Dressing	No
A&L-003-01 A	Opening 6	600	450	WNW	Bathroom	No
A&L-003-01 A	Opening 7	600	900	WNW	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **XMXT9HK63**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

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
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

External wall type

Type	Insulation	Wall wrap
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	S	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	WNW	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **XMXT9HK63**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**

Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	SSW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	S	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	SE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	WNW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **XMXT9HK63**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : Internal - Plasterboard Stud Wall (w/ R2.0)	21.5	Glass fibre batt: R2.0 (R2.0)
2 : FR5 - Internal Plasterboard Stud Wall	126	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **XMXT9HK63**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**

Building Features

Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber
Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

Nationwide House Energy Rating Scheme* Certificate



Certificate Number: **XMXT99HK63**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**

Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	medium

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **XMXT9HK63**

Date of Certificate: **4 Nov 2019**

★ Star rating: **5.8**



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

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: YB4E7XGYZV

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Assessor details

Accreditation number: VIC/BDAV/14/1658
Name: Duncan Hope
Organisation: Senica Consultancy Group
Email: duncan@senica.com.au
Phone: 61280067784
Declaration of interest: Employed by organisation constructing the building
Software: FirstRate5: 5.2.11 (3.13)
AAO: BDAV

Overview

Dwelling details

Address: 15, 951 Broken Head Road
Suburb: BROKEN HEAD
State: NSW Postcode: 2481
Type: New Home NCC Class: Class 1a
Lot/DP number: 1//1031848 NatHERS climate zone: 10
Exposure: open

Key construction and insulation materials

(see following pages for details)

Construction: Wall: As indicated
Roof: As indicated
Floor: As indicated
Insulation: Wall: As indicated
Roof: As indicated
Floor: As indicated
Glazing: As indicated
As indicated

Net floor area (m²)

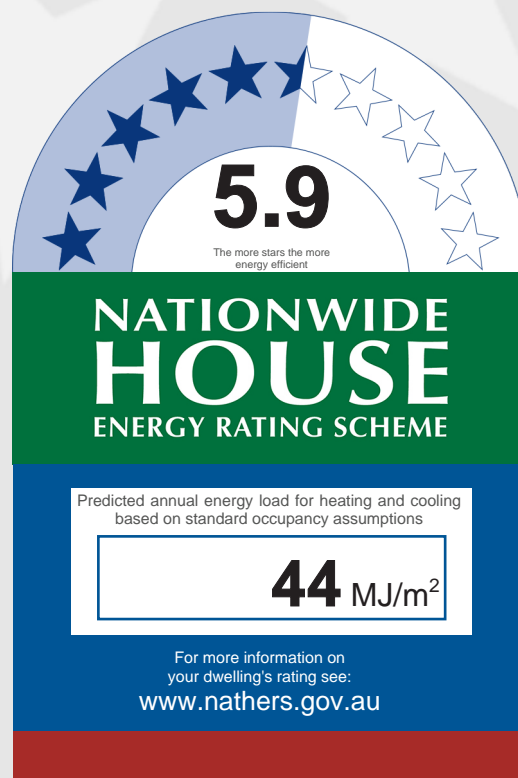
Conditioned: 151.9
Unconditioned: 19.5
Garage: -
TOTAL: 171.4

Annual thermal performance loads (MJ/m²)

Heating: 21.1
Cooling: 22.9
TOTAL: 44

Plan documents

Plan ref/date: HGA206 - Eco Tourism
Prepared by: Harley Graham Architects



Ceiling penetrations

(see following pages for details)

Sealed: 0
Unsealed: 0
TOTAL:** 0

Principal downlight type: Compact fluorescent

****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.

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=YB4E7XGYZV>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: YB4E7XGYZV

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
A&L-003-01 A	Al Sliding Window SG 3Clr	6.15	0.78
A&L-012-04 A	Al Sliding Door SG 4Clr	6.09	0.72

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
A&L-003-01 A	Opening 34	1500	1800	SW	Kitchen/Living	No
A&L-003-01 A	Opening 35	1500	900	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 36	1500	1500	SW	Kitchen/Living	No
A&L-003-01 A	Opening 37	1500	1800	SE	Kitchen/Living	No
A&L-012-04 A	Opening 38	2700	2500	ESE	Kitchen/Living	No
A&L-003-01 A	Opening 31	450	900	W	WC	No
A&L-003-01 A	Opening 32	1200	1200	SSW	Laundry	No
A&L-003-01 A	Opening 33	1200	300	SSW	Hallway	No
A&L-003-01 A	Opening 45	2700	300	NE	Entry	No
A&L-012-04 A	Opening 39	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 40	2400	1500	ESE	Retreat	No
A&L-003-01 A	Opening 41	2400	300	ESE	Retreat	No
A&L-003-01 A	Opening 42	1500	600	NNE	Retreat	No
A&L-003-01 A	Opening 43	1500	450	WNW	Retreat	No
A&L-003-01 A	Opening 44	1500	900	NNE	Retreat	No
A&L-003-01 A	Opening 12	1500	1500	SW	Bedroom 1	No
A&L-003-01 A	Opening 13	1200	1800	SE	Bedroom 1	No
A&L-012-04 A	Opening 14	2400	2100	ESE	Bedroom 1	No
A&L-003-01 A	Opening 15	2700	450	NNE	Bedroom 1	No
A&L-003-01 A	Opening 10	1500	1800	SW	Dressing	No
A&L-003-01 A	Opening 11	1500	900	ESE	Dressing	No
A&L-003-01 A	Opening 6	600	450	W	Bathroom	No
A&L-003-01 A	Opening 7	600	900	W	Bathroom	No
A&L-003-01 A	Opening 8	1200	300	SW	Bathroom	No
A&L-003-01 A	Opening 9	1500	600	SE	Bathroom	No
A&L-003-01 A	Opening 19	900	900	WNW	Hall Upstairs	No
A&L-003-01 A	Opening 18	2700	300	NE	Hall Upstairs	No
A&L-003-01 A	Opening 46	600	900	NNE	Spare Room	No
A&L-003-01 A	Opening 16	1500	1500	ESE	Void / balcony	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: YB4E7XGYZV

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

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
1 : Colourbond - 90mm Colourbond Sheet with R2.0	Rockwool batt: R2.0 (R2.0)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.9	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	ESE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.5	SW	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.7	SE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.3	SSE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.1	ESE	Kitchen/Living	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Kitchen/Living	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.7	W	WC	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.5	WNW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6.1	SSW	Laundry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.6	SSW	Hallway	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet	3.7	NNE	Entry	Yes	No

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: YB4E7XGYZV

Date of Certificate: 4 Nov 2019

★ Star rating: 5.9



Building Features

with R2.0

1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Entry	No	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	S	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Entry	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1.1	NW	Storage	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	ESE	Retreat	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10.2	NNE	Retreat	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	WNW	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.3	NNE	Retreat	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.6	SE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	NE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	SSE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.2	ESE	Bedroom 1	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	6	NNE	Bedroom 1	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.3	SSW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	10	SW	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.8	ESE	Dressing	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.4	W	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3	SSW	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	5.2	SW	Bathroom	No	Yes

Nationwide House Energy Rating Scheme* Certificate

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★ Star rating: 5.9



Building Features

1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.1	SE	Bathroom	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	9.8	NW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.8	NNE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.8	WNW	Hall Upstairs	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.4	SSW	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.2	NE	Hall Upstairs	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	8.6	NNE	Spare Room	No	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	1	NW	Spare Room	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	4.5	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	2.5	NNE	Void / balcony	Yes	No
1 : Colourbond - 90mm Colourbond Sheet with R2.0	3.1	ESE	Void / balcony	Yes	Yes
1 : Colourbond - 90mm Colourbond Sheet with R2.0	7.7	NNE	Void / balcony	No	Yes

Internal wall type

Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	147.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	TIMB - INS - Timber Lined with R2.0	46.7	Open	R2.0	Timber
WC	TIMB - INS - Timber Lined with R2.0	2.7	Open	R2.0	Tiles
Laundry	TIMB - INS - Timber Lined with R2.0	4.9	Open	R2.0	Tiles
Hallway	TIMB - INS - Timber Lined with R2.0	5.5	Open	R2.0	Timber
Entry	TIMB - INS - Timber Lined with R2.0	19.4	Open	R2.0	Timber
Storage	TIMB - INS - Timber Lined with R2.0	1.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	4.4	Open	R2.0	Timber
Retreat	TIMB - INS - Timber Lined with R2.0	13.1	Open	R2.0	Timber

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Building Features

Bedroom 1	FR5 - Timber Lined	28.7	Enclosed	R0.0	Timber
Dressing	FR5 - Timber Lined	15.4	Enclosed	R0.0	Timber
Bathroom	FR5 - Timber Lined	0.6	Elevated	R0.0	Tiles
Bathroom	FR5 - Timber Lined	11.2	Enclosed	R0.0	Tiles
Hall Upstairs	FR5 - Timber Lined	20.5	Enclosed	R0.0	Timber
Spare Room	FR5 - Timber Lined	7.6	Enclosed	R0.0	Timber
Void / balcony	FR5 - Timber Lined	9.6	Enclosed	R0.0	Timber

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
Kitchen/Living	FR5 - Timber Lined	R0.0	No
WC	FR5 - Timber Lined	R0.0	No
Laundry	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Hallway	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Entry	FR5 - Timber Lined	R0.0	No
Storage	FR5 - Timber Lined	R0.0	No
Retreat	Plasterboard	R3.0	Yes
Retreat	FR5 - Timber Lined	R0.0	No
Retreat	FR5 - Timber Lined	R0.0	No
Bedroom 1	Plasterboard	R3.0	Yes
Dressing	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Bathroom	Plasterboard	R3.0	Yes
Hall Upstairs	Plasterboard	R3.0	Yes
Spare Room	Plasterboard	R3.0	Yes
Void / balcony	Plasterboard	R3.0	Yes

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Building Features

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
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Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Cont:Attic-Continuous	1.3	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