



# Nationwide House Energy Rating Scheme

## A building certifier and surveyor's guide to the NatHERS certificate

### What am I looking at?

Across Australia, all Nationwide House Energy Rating Scheme (NatHERS) star ratings are presented on a certificate. The front page of the certificate shows key details about the dwelling, while the other pages give details about the assessment assumptions.

The front page of the certificate will be in one of two formats:

1. If the certificate includes the NatHERS logo, it has been completed by a NatHERS accredited assessor. These certificates can be printed in colour.
2. If the certificate does not include the NatHERS logo, it has been completed by a non-accredited assessor. These certificates can only be printed in black and white.

NatHERS accredited assessors are members of an Assessor Accrediting Organisation (AAO) which provides quality assurance, on-going training and confirms professional indemnity insurance is held by the assessor. Current AAO's are; The Australian Building Sustainability Association Ltd (ABSA), The Building Designers Association Victoria (BDVA) and The House Energy Raters Association (HERA).

As non-accredited assessors do not have these industry safeguards, you will need to be comfortable the assessment was conducted by a fit and proper person and met the requirements of the state or territory. *Note:* states and territories have different requirements for accrediting assessors, so you will need to check what is appropriate within your jurisdiction.

**IMPORTANT:** If any of the components in the certificate do not match the submitted documents for assessment or what has been built, then the dwelling may not be compliant. A new certificate with the correct building details should be requested.

### NatHERS certificate: front page

3. The 'assessor details' show the name, contact details and AAO (where applicable) for the party responsible for the assessment. Check these details to ensure the assessor is able to conduct the assessment and meet your jurisdiction's requirements.

4. The 'dwelling details' give the basic information about the dwelling. Check these details to ensure the right certificate is being considered.

5. The 'plan documents' show the documentation used as the basis for the assessment. Check that the building documentation (including any drawing revisions) matches what is detailed on the certificate.

**Nationwide House Energy Rating Scheme\* Certificate**

Certificate number: 87654321    Date of certificate: 12 April 2014    ★ Star rating: 6.5

**Assessor details**

Accreditation number: 12345678  
 Name: Fred Williams  
 Organisation: Capital Building Assessors  
 Email: frederick.williams@cassessors.com.au  
 Phone: 1234 567 890  
 Declaration of interest: Employed by designer of the building  
 Software: FirstRate5 v5.5.11  
 AAO: ABSA

**Overview**

**Dwelling details**

Address: Unit 15, 237 Edwina Mountbatten Drive  
 Suburb: West Wyndham  
 State: NSW    Postcode: 2345  
 Type: New dwelling    NCC Class: 01  
 Lot/DP number: 9/53    NatHERS climate zone: 14  
 Exposure: Suburban

**Key construction and insulation materials**  
 (see following pages for details)

Construction: Brick veneer  
 Ceramic tile roof  
 Slab on ground  
 Insulation: R1.5 wall insulation  
 R3.5 ceiling insulation  
 Glazing: Timber frame  
 Single glaze clear

**Net floor area (m<sup>2</sup>)**

Conditioned:	55
Unconditioned:	23
Garage:	12
TOTAL:	90

**Annual thermal performance loads (MJ/m<sup>2</sup>)**

Heating:	576
Cooling:	658
TOTAL:	1234

**Plan documents**

Plan ref/date: Ref24/88  
 Prepared by: Wyndham Sustainable Homes

**Ceiling penetrations**  
 (see following pages for details)

Sealed:	5
Unsealed:	18
TOTAL:**	23

Principle daylight type: Compact fluorescent

**Window selection – default windows only**

Note on allowable window values:  
 With a 10% tolerance to the nominated SHGC, window values shown on page 2, the following ratings are achieved:

-10% SHGC	6.3
+10% SHGC	6.6

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 the rating listed above falls below 6.0 stars or the required rating, then the window with this tolerance can NOT be selected.

**6.5**  
 The more stars the more energy efficient

**NATIONWIDE HOUSE ENERGY RATING SCHEME**

Predicted annual energy load for heating and cooling based on standard occupancy assumptions

**1234 MJ/m<sup>2</sup>**

For more information on your dwelling's rating see:  
[www.nathers.gov.au](http://www.nathers.gov.au)

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

**1. A certificate with a NatHERS logo indicates the assessment was conducted by an accredited NatHERS assessor according to the AAO's code of conduct and membership requirements.**

**2. The 'star rating' shows the predicted heating and cooling energy load for the dwelling. This number needs to meet the star rating requirements for the state or territory in which the dwelling is being built.**

**6. The 'ceiling penetrations' give the number of penetrations that have been allowed for in this assessment. Check these details to ensure the finished building has not exceeded the number of penetrations.**

\* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see [www.nathers.gov.au](http://www.nathers.gov.au) Page 1 of 5

# NatHERS certificate: other pages

The other pages of the NatHERS certificate provide details about the assumptions used to conduct the assessment. Each of these assumptions can have a significant impact on the heat loss and gain in a dwelling, and change the star rating of the dwelling.



For more information  
Visit: [www.nathers.gov.au](http://www.nathers.gov.au)

7. The first section of 'building features' details the number, size, location and type of glazing. Check these details are the same as the dwelling's documentation submitted for the assessment.

8. The second section of the building features details the roof windows and skylights. Check these details are the same as the dwelling's documentation submitted for the assessment.

**Nationwide House Energy Rating Scheme\* Certificate**  
Certificate number: 8766421 Date of certificate: 12 April 2014 ★ Star rating: 6.5

**Building features**

**Window type and performance value**

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A, single glazed, clear	5.75	0.69
ALM-002-01 B	Aluminium B, single glazed, clear	7.27	0.58
ALM-003-25 A	Aluminium A, double glazed, toned glass	6.23	0.65

**Window schedule**

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	001	2100	1000	SSE	Kitlv	No
ALM-001-01 A	002	2100	1000	SSE	Kitlv	No
ALM-001-01 A	003	2100	1000	E	Kitlv	No
ALM-001-01 A	004	1500	1000	SW	Bt1	Yes
ALM-001-01 A	005	1500	1000	WSW	Bt1	Yes
ALM-001-01 A	006	1500	1000	N	Bt2	Yes
ALM-002-01 B	007	1500	1000	N	Bt2	Yes
ALM-002-01 B	008	1500	1000	N	Bt2	Yes
ALM-002-01 B	009	1200	1500	S	Bt3	No
ALM-002-01 B	010	1200	1500	S	Bt3	No
ALM-002-01 B	011	1200	1500	E	Ensuite	No
ALM-002-01 B	012	1200	1500	W	Bath	Yes
ALM-003-25 A	013	900	1200	W	Bath	Yes
ALM-003-25 A	014	800	1200	N	Living	Yes
ALM-003-25 A	015	900	1200	N	Living	Yes
ALM-003-25 A	016	900	1200	N	Living	Yes

**Roof window and skylight type and performance value**

ID	Window type	U-value	SHGC
SO-001-02-234	Single glazed, clear glass, timber/PVC	5.75	0.69
SO-213-03-123	Single glazed, toned glass, aluminium	7.27	0.58

**Roof window and skylight schedule**

ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
SO-001-02-234	017	1.1	NNE	Kitlv	20%	No
SO-001-02-234	018	2.0	NE	Kitlv	20%	Yes
SO-213-03-123	019	1.1	N	Living	20%	Yes
SO-213-03-123	020	2.0	NW	Living	0%	No

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**Nationwide House Energy Rating Scheme\* Certificate**  
Certificate number: 8766421 Date of certificate: 12 April 2014 ★ Star rating: 6.5

**Building features continued**

**External wall type**

Type	Insulation	Wall wrap
Brick veneer	Glass fibre batt: R2.0	Yes
Solid brick	Glass fibre batt: R2.0	Yes
Reverse brick veneer	Glass fibre batt: R2.0	No

**External wall schedule**

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Field shade	Eaves
Curb-BV 123-Ac	8.5	N	Kitlv	No	Yes

**Internal wall type**

Wall type	Area (m <sup>2</sup> )	Insulation
Plasterboard	8.5	Glass fibre batt: R3.0

**Floors**

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSCG: slab on ground	5.2	none	R2.5	Carpet
Garage	CSCG: slab on ground	2.1	Encl	0	None

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9. The third section of the building features details the wall types, locations and insulation details. Check these details are the same as the dwelling's documentation submitted for the assessment.

10. The fourth section of building features details the type of floor. Check these details are the same as the dwelling's documentation submitted for the assessment.

11. The fifth section of building features details the type of ceiling and provides more information about ceiling penetrations. Ceiling penetrations significantly reduce the effectiveness of insulation and allow conditioned air from rooms to escape. Check these details are the same as the dwelling's documentation submitted for the assessment.

12. The final section of building features details the roof material and colour. Darker roof colours can heat up the building and create higher internal temperatures than lighter coloured roofs. Check these details are the same as the dwelling's documentation submitted for the assessment.

**Nationwide House Energy Rating Scheme\* Certificate**  
Certificate number: 8766421 Date of certificate: 12 April 2014 ★ Star rating: 6.5

**Building features continued**

**Ceiling type**

Location	Material	Added insulation	Roof space above
Living	Plasterboard	R2.5	Yes
Bedroom	Timber	0	No

**Ceiling penetrations**

Location	Number	Type	Diameter (mm)	Sealed/Unsealed
Living	8	LED downlight	90	Sealed
		Light fitting	100	Sealed
		Exhaust fan	400	Sealed
		Ceiling air vent	250	Unsealed

**Ceiling fans**

Location	Number	Diameter (mm)
Living	2	900
Bedroom	1	1200

**Roof type**

Material	Added insulation	Roof colour
Metal	R2.5	Dark
Concrete tile	Barking	Light

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13. Class 2 buildings require NatHERS certificates for each individual unit, as well as a certificate that provides a rating for the entire building. The Class 2 summary certificate provides a list showing the individual ratings for each unit in the building, as well as an average rating for the entire building.

**Nationwide House Energy Rating Scheme\* — Class 2 summary**  
Certificate number: 1122001 Date of certificate: 12 April 2014 ★ Average star rating: 6.5

**Assessor details**

Accreditation number: 12345678  
Name: Fred Williams  
Organization: Capital Building Assessors  
Email: fredrick.williams@cbassessors.com.au  
Phone: 1234 567 899  
Declaration of interest: Employed by designer of the building  
Software: FrostBark v4.6.11  
AAD: ABBA

**Dwelling details**

Address: 237 Edwinia Mountbatten Drive  
Suburb: West Wyntham  
State: NSW  
Postcode: 2345

**Summary of all dwellings**

**Certification details**

Certificate number	Unit number	Heating load	Cooling load	Total load	Star rating
11220001-001	1	102	40	142	6.5
11220001-002	2	100	35	135	7
11220001-003	3	111	43	154	6
11220001-004	4	111	43	154	6
11220001-005	5	100	35	135	7
11220001-006	6	111	43	154	6.5
11220001-007	7	102	40	142	6.5
11220001-008	8	100	35	135	7
11220001-009	9	111	43	154	7
11220001-010	10	111	43	154	6
11220001-011	11	100	35	135	6.5
11220001-012	12	111	43	154	7
11220001-013	13	102	40	142	6
11220001-014	14	100	35	135	6
11220001-015	15	111	43	154	7
11220001-016	16	111	43	154	6.5
11220001-017	17	100	35	135	6.5
11220001-018	18	111	43	154	7

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