

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: YKNAT6VZ7G

Date of Certificate: 7 Aug 2015

★ Star rating: 4.3

## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 178 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

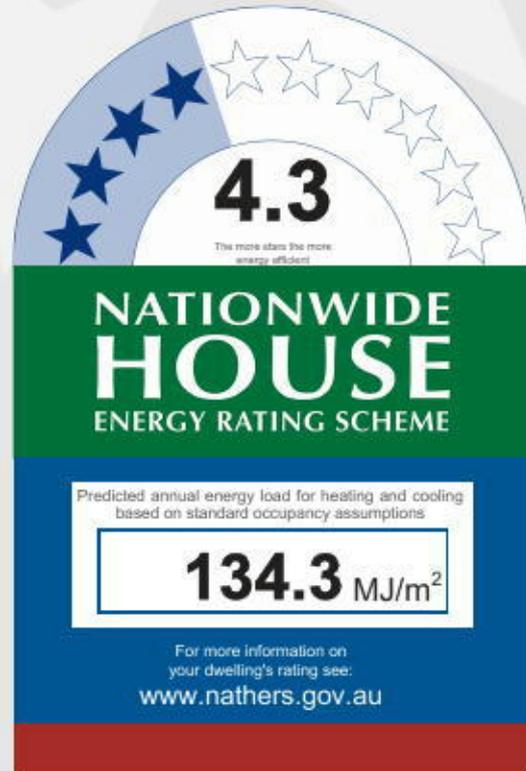
Conditioned: 58.3  
Unconditioned: 5.9  
Garage: 16.4  
TOTAL: 80.6

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

Heating: 61.1  
Cooling: 73.2  
TOTAL: 134.3

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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/QRCodeLanding?PublicId=YKNAT6VZ7G>

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Certificate Number: YKNAT6VZ7G

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## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 27	1200	850	W	Ldry	No
ALM-002-01 A	Opening 28	1200	610	W	Entry	No
ALM-002-01 A	Opening 32	1030	1210	N	Bath	No
ALM-002-01 A	Opening 33	600	2110	N	Bed 2	No
ALM-002-01 A	Opening 34	900	2110	S	Principal Suite	No
ALM-002-01 A	Opening 36	1200	602	W	Kitchen/Living	No
ALM-002-01 A	Opening 35	1200	1570	S	Kitchen/Living	No
ALM-002-01 A	Opening 29	1200	1450	W	Dining/Family	No
ALM-002-01 A	Opening 30	1030	850	W	Dining/Family	No
ALM-002-01 A	Opening 31	1030	610	W	Dining/Family	No
ALM-002-01 A	Opening 37	2100	1510	S	Dining/Family	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : FR5 - Double Brick		No
2 : 014 - Brick Veneer R 2 . 0	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Double Brick	13.7	ESE	Garage	Yes	No
1 : FR5 - Double Brick	4.4	WNW	Garage	Yes	No
1 : FR5 - Double Brick	7	SSW	Garage	Yes	No

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## Building Features

2 : 014 - Brick Veneer R 2 . 0	4.6	WNW	Ldry	No	No
2 : 014 - Brick Veneer R 2 . 0	2.7	SSW	Ldry	Yes	No
2 : 014 - Brick Veneer R 2 . 0	2.6	ESE	Entry	Yes	No
2 : 014 - Brick Veneer R 2 . 0	9.7	NNE	Entry	No	No
2 : 014 - Brick Veneer R 2 . 0	7.3	WNW	Entry	No	No
2 : 014 - Brick Veneer R 2 . 0	4.7	NNE	Bath	Yes	No
2 : 014 - Brick Veneer R 2 . 0	7	ESE	Bed 2	No	No
2 : 014 - Brick Veneer R 2 . 0	10.1	NNE	Bed 2	Yes	No
2 : 014 - Brick Veneer R 2 . 0	8.6	SSW	Principal Suite	No	No
2 : 014 - Brick Veneer R 2 . 0	8.5	ESE	Principal Suite	No	No
2 : 014 - Brick Veneer R 2 . 0	6.3	WNW	Kitchen/Living	Yes	No
2 : 014 - Brick Veneer R 2 . 0	6.4	SSW	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 2 . 0	0.6	NNE	Dining/Family	Yes	No
2 : 014 - Brick Veneer R 2 . 0	2.6	ESE	Dining/Family	Yes	No
2 : 014 - Brick Veneer R 2 . 0	9.7	NNE	Dining/Family	No	No
2 : 014 - Brick Veneer R 2 . 0	12	WNW	Dining/Family	No	No
2 : 014 - Brick Veneer R 2 . 0	2.2	SSW	Dining/Family	Yes	No
2 : 014 - Brick Veneer R 2 . 0	7.8	SSW	Dining/Family	Yes	Yes

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	60.8	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Garage	CSOG: Slab on Ground	11.8	Enclosed	0.0	none
Garage	CSOG: Slab on Ground	4.6	Enclosed	0.0	none
Ldry	CSOG: Slab on Ground	2.1	Enclosed	0.0	Tiles
Entry	CSOG: Slab on Ground	6.5	Enclosed	0.0	Tiles
Bath	SuspSlab	3.8	Enclosed Disconnected	1.5	Tiles
Bed 2	SuspSlab	11.2	Enclosed Disconnected	1.5	Carpet
Principal Suite	SuspSlab	12.1	Enclosed Disconnected	1.5	Carpet

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: YKNAT6VZ7G

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★ Star rating: 4.3



## Building Features

Kitchen/Living	SuspSlab	13	Enclosed Disconnected	1.5	Tiles
Dining/Family	Timber	21.1	Enclosed	0.0	Tiles

### Ceiling type

Location	Material	Added insulation	Roof space above
Garage	Plasterboard	0.0	No
Garage	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Entry	Plasterboard	0.0	No
Bath	Plasterboard	4.5	No
Bed 2	Plasterboard	4.5	No
Principal Suite	Plasterboard	4.5	No
Kitchen/Living	Plasterboard	4.5	No
Dining/Family	Plasterboard	4.5	No

### 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
SlabExt:Slab - Suspended Slab - External Insul	0.0	dark
Framed:Flat - Flat Framed (Metal Deck)	1.0	dark

# 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.

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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

For more information on the Nationwide House Energy Rating Scheme (NatHERS), visit [www.nathers.gov.au](http://www.nathers.gov.au)

For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **LT1P6AWX90**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.5**

## Assessor details

Accreditation number: **20311**  
Name: **V.Vicaretti**  
Organisation: **akv pty ltd**  
Email: **info@akvptyltd.com.au**  
Phone: **0414 426 546**  
Declaration of interest: **No potential conflicts of interest to declare**  
Software: **FirstRate5: 5.2.1 (3.13)**  
AAO: **ABSA**

## Overview

### Dwelling details

Address: **Lot 178 The Promenade**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Home** NCC Class: **Class 1a**  
Lot/DP number: **-** NatHERS climate zone: **28**  
Exposure: **suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: **Brick Veneer**  
Roof: **Concrete Tile**  
Floor: **Concrete**  
Insulation: Wall: **R1.5 Bulk Insulation**  
Roof: **R2.5 Bulk Insulation**  
Floor: **None**  
Glazing: **Aluminium Clear**

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

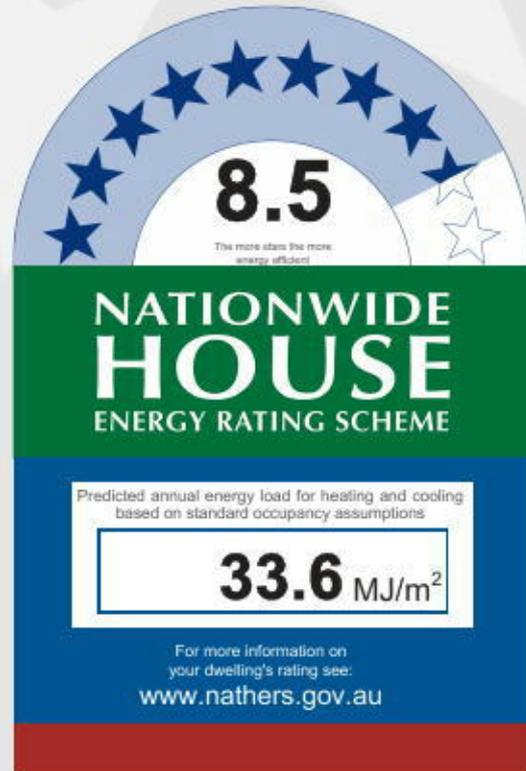
Conditioned: **93.7**  
Unconditioned: **2.9**  
Garage: **8.4**  
TOTAL: **105**

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

Heating: **10.8**  
Cooling: **22.8**  
TOTAL: **33.6**

### Plan documents

Plan ref/date: **-**  
Prepared by: **-**



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **No downlights modelled**

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



Certificate Number: **LT1P6AWX90**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.5**

## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 9	2100	2410	N	Kitchen/Family	No
ALM-002-01 A	Opening 8	2100	2400	N	Kitchen/Family	No
ALM-002-01 A	Opening 7	1500	1810	W	Kitchen/Family	No
ALM-002-01 A	Opening 1	1200	1570	S	Bed 2	No
ALM-002-01 A	Opening 4	1500	1810	W	Principl Suite	No
ALM-002-01 A	Opening 3	1500	850	W	Ens.	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : FR5 - Brick Cavity		No
2 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Cavity	18.8	ESE	Kitchen/Family	No	No
2 : 014 - Brick Veneer R 1 . 5	8.2	NNE	Kitchen/Family	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	8.8	NNE	Kitchen/Family	No	Yes
2 : 014 - Brick Veneer R 1 . 5	6	WNW	Kitchen/Family	Yes	No
2 : 014 - Brick Veneer R 1 . 5	3.3	NNE	Kitchen/Family	Yes	No
2 : 014 - Brick Veneer R 1 . 5	5.1	WNW	Kitchen/Family	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	5.6	WNW	Upper entry	No	No
2 : 014 - Brick Veneer R 1 . 5	0.9	SSW	Upper entry	Yes	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **LT1P6AWX90**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.5**

## Building Features

1 : FR5 - Brick Cavity	6.1	ESE	Bath	No	No
2 : 014 - Brick Veneer R 1 . 5	8.3	SSW	Bed 2	No	No
1 : FR5 - Brick Cavity	7.2	ESE	Bed 2	No	No
2 : 014 - Brick Veneer R 1 . 5	10.2	WNW	Principal Suite	No	No
2 : 014 - Brick Veneer R 1 . 5	3.4	SSW	Principal Suite	No	No
2 : 014 - Brick Veneer R 1 . 5	4.8	WNW	Ens.	No	No
2 : 014 - Brick Veneer R 1 . 5	4.5	SSW	Ens.	No	No
2 : 014 - Brick Veneer R 1 . 5	0.4	WNW	Hall	No	No
2 : 014 - Brick Veneer R 1 . 5	2.8	SSW	Hall	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	90.8	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Kitchen/Family	CSOG: Slab on Ground	45.7	Enclosed	0.0	Tiles
Upper entry	CSOG: Slab on Ground	8.4	Enclosed	0.0	none
Ldry	CSOG: Slab on Ground	2.9	Enclosed	0.0	Tiles
Bath	CSOG: Slab on Ground	8.8	Enclosed	0.0	Tiles
Bed 2	CSOG: Slab on Ground	10.2	Enclosed	0.0	Carpet
Principal Suite	CSOG: Slab on Ground	17	Enclosed	0.0	Carpet
Ens.	CSOG: Slab on Ground	3.7	Enclosed	0.0	Tiles
Hall	CSOG: Slab on Ground	8.2	Enclosed	0.0	Tiles

### Ceiling type

Location	Material	Added insulation	Roof space above
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### 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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# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **LT1P6AWX90**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.5**

## Building Features

### Roof type

Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: **LT1P6AWX90**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.5**



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# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: 40JS4FPH35

Date of Certificate: 7 Aug 2015

★ Star rating: 5.2

## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 178 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

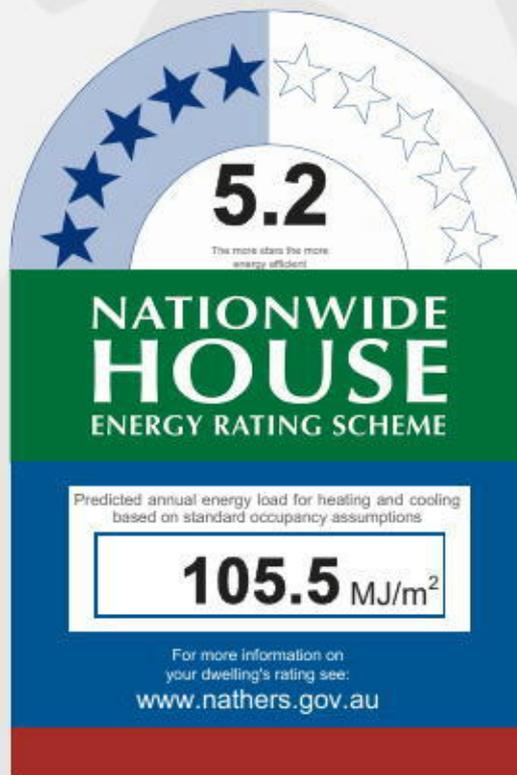
Conditioned: 132.7  
Unconditioned: 2.9  
Garage: -  
TOTAL: 135.6

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

Heating: 34.1  
Cooling: 71.4  
TOTAL: 105.5

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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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<https://www.fr5.com.au/QRCodeLanding?PublicId=40JS4FPH35>

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 40JS4FPH35

Date of Certificate: 7 Aug 2015

★ Star rating: 5.2



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 22	1500	850	W	Living 10	No
ALM-002-01 A	Opening 9	2100	2410	N	Kitchen/Family	No
ALM-002-01 A	Opening 8	2100	2400	N	Kitchen/Family	No
ALM-002-01 A	Opening 7	1500	1810	W	Kitchen/Family	No
ALM-002-01 A	Opening 16	1500	850	W	Kitchen/Family	No
ALM-002-01 A	Opening 17	2100	2100	W	Kitchen/Family	No
ALM-002-01 A	Opening 1	1200	1570	S	Bed 2	No
ALM-002-01 A	Opening 4	1500	1810	W	Princpal Suite	No
ALM-002-01 A	Opening 3	1500	850	W	Ens.	No
ALM-002-01 A	Opening 18	2100	2410	N	Entertainment	No
ALM-002-01 A	Opening 19	1200	2169	W	Study	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : 014 - Brick Veneer R 2 . 0	Glass fibre batt: R2.0 (R2.0)	Yes
2 : FR5 - Brick Cavity		No
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : 014 - Brick Veneer R 2 . 0	0.8	SSW	Living 10	Yes	No
1 : 014 - Brick Veneer R 2 . 0	7.8	SSW	Living 10	Yes	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 40JS4FPH35

Date of Certificate: 7 Aug 2015

★ Star rating: 5.2



## Building Features

1 : 014 - Brick Veneer R 2 . 0	5.6	ESE	Living 10	Yes	No
1 : 014 - Brick Veneer R 2 . 0	8.5	NNE	Living 10	Yes	No
1 : 014 - Brick Veneer R 2 . 0	5.6	WNW	Living 10	No	No
1 : 014 - Brick Veneer R 2 . 0	0.8	SSW	Kitchen/Family	Yes	No
2 : FR5 - Brick Cavity	18.8	ESE	Kitchen/Family	No	No
1 : 014 - Brick Veneer R 2 . 0	8.2	NNE	Kitchen/Family	Yes	Yes
1 : 014 - Brick Veneer R 2 . 0	8.8	NNE	Kitchen/Family	No	Yes
1 : 014 - Brick Veneer R 2 . 0	6	WNW	Kitchen/Family	Yes	No
1 : 014 - Brick Veneer R 2 . 0	3.3	NNE	Kitchen/Family	Yes	No
1 : 014 - Brick Veneer R 2 . 0	11	WNW	Kitchen/Family	Yes	Yes
2 : FR5 - Brick Cavity	6.1	ESE	Bath	No	No
1 : 014 - Brick Veneer R 2 . 0	8.3	SSW	Bed 2	No	No
2 : FR5 - Brick Cavity	7.2	ESE	Bed 2	No	No
1 : 014 - Brick Veneer R 2 . 0	10.2	WNW	Principal Suite	No	No
1 : 014 - Brick Veneer R 2 . 0	6.4	SSW	Principal Suite	No	No
1 : 014 - Brick Veneer R 2 . 0	4.8	WNW	Ens.	No	No
1 : 014 - Brick Veneer R 2 . 0	4.5	SSW	Ens.	No	No
1 : 014 - Brick Veneer R 2 . 0	0.4	WNW	Hall	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	8.6	SSW	Entertainment	No	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	6.4	ESE	Entertainment	Yes	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	3.1	SSW	Entertainment	Yes	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	10.5	ESE	Entertainment	No	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	8.4	NNE	Entertainment	No	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	6.1	WNW	Entertainment	Yes	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	2.5	WNW	Entertainment	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	3.1	NNE	Study	Yes	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	8.2	WNW	Study	No	Yes

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	93.8	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
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# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: 40JS4FPH35

Date of Certificate: 7 Aug 2015

★ Star rating: 5.2

## Building Features

Living 10	CSOG: Slab on Ground	8.4	Enclosed	0.0	Tiles
Kitchen/Family	SuspSlab	26.3	Enclosed Disconnected	0.0	Tiles
Kitchen/Family	SuspSlab	19.9	Enclosed Disconnected	0.0	Tiles
Kitchen/Family	Timber	8.7	Enclosed	0.0	Tiles
Ldry	SuspSlab	2.9	Enclosed Disconnected	0.0	Tiles
Bath	SuspSlab	8.8	Enclosed Disconnected	0.0	Tiles
Bed 2	SuspSlab	10.2	Enclosed Disconnected	0.0	Carpet
Principl Suite	SuspSlab	19.3	Enclosed Disconnected	0.0	Carpet
Ens.	SuspSlab	3.7	Enclosed Disconnected	0.0	Tiles
Hall	SuspSlab	6.1	Enclosed Disconnected	0.0	Tiles
Entertainment	Timber	19.5	Enclosed	0.0	Tiles
Study	Timber	7.3	Enclosed	0.0	Tiles

## Ceiling type

Location	Material	Added insulation	Roof space above
Living 10	Plasterboard	0.0	No
Living 10	Plasterboard	0.0	No
Kitchen/Family	Plasterboard	3.5	No
Kitchen/Family	Plasterboard	0.0	No
Kitchen/Family	Plasterboard	0.0	No
Kitchen/Family	Plasterboard	0.0	No
Kitchen/Family	Plasterboard	0.0	No
Ldry	Plasterboard	3.5	No
Bath	Plasterboard	3.5	No
Bed 2	Plasterboard	3.5	No
Principl Suite	Plasterboard	3.5	No
Ens.	Plasterboard	3.5	No
Hall	Plasterboard	3.5	No
Entertainment	Plasterboard	3.5	No
Study	Plasterboard	3.5	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 40JS4FPH35

Date of Certificate: 7 Aug 2015

★ Star rating: 5.2



## 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	dark

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 40JS4FPH35

Date of Certificate: 7 Aug 2015

★ Star rating: 5.2



## 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](http://www.nathers.gov.au)

For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: 2N2JJZY8FM

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3

## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 179 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

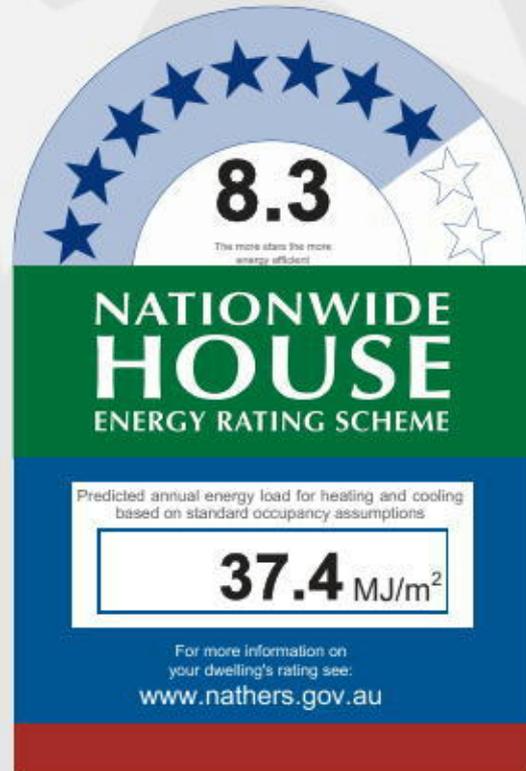
Conditioned: 107.9  
Unconditioned: 1.5  
Garage: -  
TOTAL: 109.4

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

Heating: 11.3  
Cooling: 26.1  
TOTAL: 37.4

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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=2N2JJZY8FM>

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 2N2JJZY8FM

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 25	1800	2410	N	Living	No
ALM-002-01 A	Opening 26	2100	3600	S	Kitchen/Family/Dining	No
ALM-002-01 A	Opening 28	2100	1509	N	Principal Suite	No
ALM-002-01 A	Opening 29	1800	610	N	Principal Suite	No
ALM-002-01 A	Opening 27	1200	610	N	Ens.	No
ALM-002-01 A	Opening 30	1200	850	S	Bed 2	No
ALM-002-01 A	Opening 31	1200	1810	S	Bed 3	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : FR5 - Brick Cavity		No
2 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Cavity	14.8	WNW	Living	No	No
1 : FR5 - Brick Cavity	8.3	ESE	Living	No	No
2 : 014 - Brick Veneer R 1 . 5	11.5	NNE	Living	No	No
1 : FR5 - Brick Cavity	3.8	ESE	Ldry	No	No
1 : FR5 - Brick Cavity	2.3	ESE	WC	No	No
1 : FR5 - Brick Cavity	17.2	WNW	Kitchen/Family/Dining	No	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: 2N2JJZY8FM

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3

## Building Features

2 : 014 - Brick Veneer R 1 . 5	11.5	SSW	Kitchen/Family/Dining	No	No
1 : FR5 - Brick Cavity	17.3	ESE	Kitchen/Family/Dining	No	No
1 : FR5 - Brick Cavity	7.6	WNW	Principal Suite	No	No
1 : FR5 - Brick Cavity	3.3	ESE	Principal Suite	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	5.1	NNE	Principal Suite	Yes	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	3.3	NNE	Principal Suite	No	No
1 : FR5 - Brick Cavity	6	ESE	Ens.	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	2.8	NNE	Ens.	Yes	Yes
1 : FR5 - Brick Cavity	4.8	ESE	Bath	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	2.9	SSW	Bed 2	Yes	No
1 : FR5 - Brick Cavity	6.5	ESE	Bed 2	No	No
1 : FR5 - Brick Cavity	6.8	WNW	Bed 3	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	8.6	SSW	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	6.8	ESE	Bed 3	Yes	No
1 : FR5 - Brick Cavity	13.3	WNW	Stairs	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	79.3	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	23.1	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	4.2	Enclosed	0.0	Tiles
WC	CSOG: Slab on Ground	1.5	Enclosed	0.0	Tiles
Kitchen/Family/Dining	CSOG: Slab on Ground	23.5	Enclosed	0.0	Tiles
Kitchen/Family/Dining	Timber	10.6	Enclosed	0.0	Carpet
Principal Suite	Timber	14.8	Enclosed	0.0	Carpet
Ens.	Timber	2.9	Enclosed	0.0	Tiles
Bath	Timber	5.1	Enclosed	0.0	Tiles
Bed 2	Timber	7.9	Enclosed	0.0	Carpet
Bed 3	Timber	10.1	Enclosed	0.0	Carpet
Stairs	Timber	10	Enclosed	0.0	Carpet

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: 2N2JJZY8FM

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3

## Building Features

### Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	2.5	No
Principal Suite	Plasterboard	2.5	No
Ens.	Plasterboard	2.5	No
Bath	Plasterboard	2.5	No
Bed 2	Plasterboard	2.5	No
Bed 3	Plasterboard	2.5	No
Stairs	Plasterboard	2.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	dark

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 2N2JJZY8FM

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## 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.

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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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For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: Q2QPQXUNR0

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 180 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

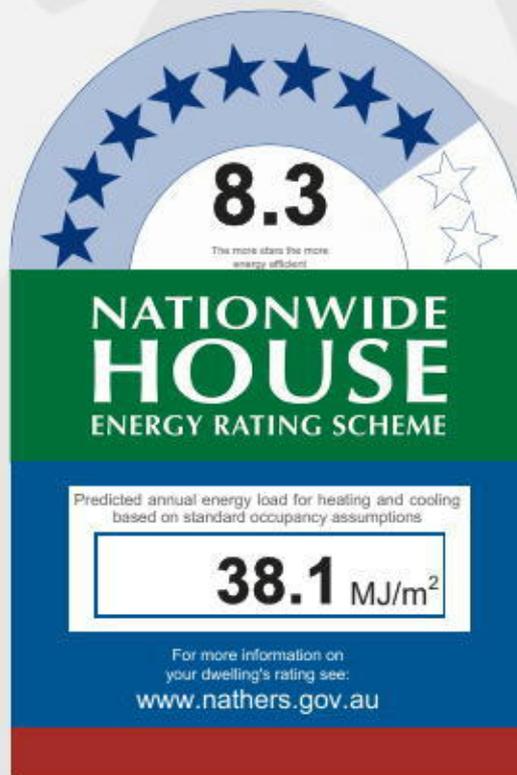
Conditioned: 107.9  
Unconditioned: 1.5  
Garage: -  
TOTAL: 109.4

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

Heating: 11  
Cooling: 27.1  
TOTAL: 38.1

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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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<https://www.fr5.com.au/QRCodeLanding?PublicId=Q2QPQXUNR0>

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: Q2QPQXUNR0

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 25	1800	2410	N	Living	No
ALM-002-01 A	Opening 26	2100	3600	S	Kitchen/Family/Dining	No
ALM-002-01 A	Opening 29	1800	610	N	Principal Suite	No
ALM-002-01 A	Opening 28	2100	1509	N	Principal Suite	No
ALM-002-01 A	Opening 27	1200	610	N	Ens.	No
ALM-002-01 A	Opening 30	1200	850	S	Bed 2	No
ALM-002-01 A	Opening 31	1200	1810	S	Bed 3	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
2 : FR5 - Brick Cavity		No
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : 014 - Brick Veneer R 1 . 5	11.5	NNE	Living	No	No
2 : FR5 - Brick Cavity	8.3	WNW	Living	No	No
2 : FR5 - Brick Cavity	14.8	ESE	Living	No	No
2 : FR5 - Brick Cavity	3.8	WNW	Ldry	No	No
2 : FR5 - Brick Cavity	2.3	WNW	WC	No	No
2 : FR5 - Brick Cavity	17.3	WNW	Kitchen/Family/Dining	No	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: Q2QPQXUNR0

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Building Features

1 : 014 - Brick Veneer R 1 . 5	11.5	SSW	Kitchen/Family/Dining	No	No
2 : FR5 - Brick Cavity	17.2	ESE	Kitchen/Family/Dining	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	3.3	NNE	Principal Suite	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	5.1	NNE	Principal Suite	Yes	Yes
2 : FR5 - Brick Cavity	3.3	WNW	Principal Suite	No	No
2 : FR5 - Brick Cavity	7.6	ESE	Principal Suite	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	2.8	NNE	Ens.	Yes	Yes
2 : FR5 - Brick Cavity	6	WNW	Ens.	No	No
2 : FR5 - Brick Cavity	4.8	WNW	Bath	No	No
2 : FR5 - Brick Cavity	6.5	WNW	Bed 2	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	2.9	SSW	Bed 2	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	6.8	WNW	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	8.6	SSW	Bed 3	Yes	No
2 : FR5 - Brick Cavity	6.8	ESE	Bed 3	No	No
2 : FR5 - Brick Cavity	13.3	ESE	Stairs	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	79.3	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	23.1	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	4.2	Enclosed	0.0	Tiles
WC	CSOG: Slab on Ground	1.5	Enclosed	0.0	Tiles
Kitchen/Family/Dining	CSOG: Slab on Ground	23.5	Enclosed	0.0	Tiles
Kitchen/Family/Dining	Timber	10.6	Enclosed	0.0	Carpet
Principal Suite	Timber	14.8	Enclosed	0.0	Carpet
Ens.	Timber	2.9	Enclosed	0.0	Tiles
Bath	Timber	5.1	Enclosed	0.0	Tiles
Bed 2	Timber	7.9	Enclosed	0.0	Carpet
Bed 3	Timber	10.1	Enclosed	0.0	Carpet
Stairs	Timber	10	Enclosed	0.0	Carpet

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: Q2QPQXUNR0

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Building Features

### Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	2.5	No
Principal Suite	Plasterboard	2.5	No
Ens.	Plasterboard	2.5	No
Bath	Plasterboard	2.5	No
Bed 2	Plasterboard	2.5	No
Bed 3	Plasterboard	2.5	No
Stairs	Plasterboard	2.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	dark

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: Q2QPQXUNR0

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## 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.

### Accredited Assessors

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### 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](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **EMXYQ8B5FO**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.4**

## Assessor details

Accreditation number: **20311**  
Name: **V.Vicaretti**  
Organisation: **akv pty ltd**  
Email: **info@akvptyltd.com.au**  
Phone: **0414 426 546**  
Declaration of interest: **No potential conflicts of interest to declare**  
Software: **FirstRate5: 5.2.1 (3.13)**  
AAO: **ABSA**

## Overview

### Dwelling details

Address: **Lot 181 The Promenade**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Home** NCC Class: **Class 1a**  
Lot/DP number: **-** NatHERS climate zone: **28**  
Exposure: **suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: **Brick Veneer**  
Roof: **Concrete Tile**  
Floor: **Concrete**  
Insulation: Wall: **R1.5 Bulk Insulation**  
Roof: **R2.5 Bulk Insulation**  
Floor: **None**  
Glazing: **Aluminium Clear**

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

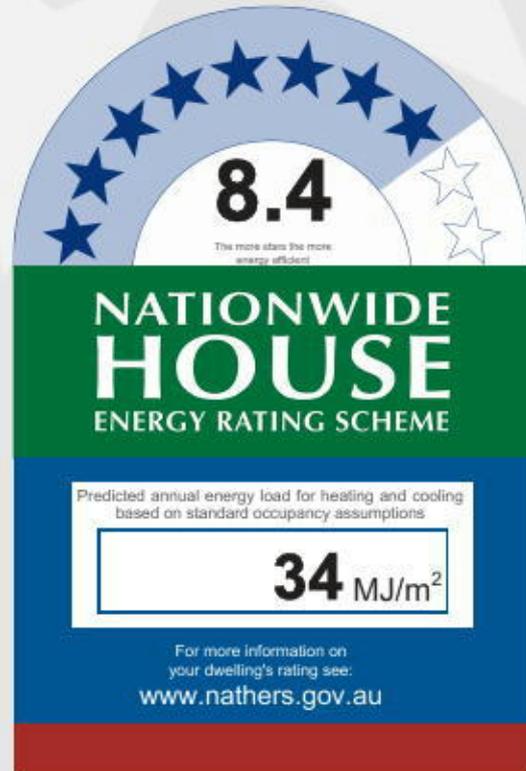
Conditioned: **88.5**  
Unconditioned: **3.6**  
Garage: **-**  
TOTAL: **92.1**

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

Heating: **15.5**  
Cooling: **18.5**  
TOTAL: **34**

### Plan documents

Plan ref/date: **-**  
Prepared by: **-**



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **No downlights modelled**

\*\*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.

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<https://www.fr5.com.au/QRCodeLanding?PublicId=EMXYQ8B5FO>

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **EMXYQ8B5FO**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.4**

## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 35	2100	1570	N	Living	No
ALM-002-01 A	Opening 36	2100	3610	S	Kitchen/Living	No
ALM-002-01 A	Opening 42	2100	1510	N	Principal Suite	No
ALM-002-01 A	Opening 43	1800	610	N	Principal Suite	No
ALM-002-01 A	Opening 41	1200	1810	S	Bed 2	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
2 : FR5 - Brick Cavity		No
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : 014 - Brick Veneer R 1 . 5	6.8	NNE	Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	3.3	NNE	Living	Yes	Yes
2 : FR5 - Brick Cavity	15.5	WNW	Living	No	No
2 : FR5 - Brick Cavity	9.5	ESE	Living	No	No
2 : FR5 - Brick Cavity	4.4	ESE	Ldry	No	No
2 : FR5 - Brick Cavity	13.1	WNW	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	10	SSW	Kitchen/Living	Yes	Yes
2 : FR5 - Brick Cavity	14.5	ESE	Kitchen/Living	No	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **EMXYQ8B5FO**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.4**

## Building Features

2 : FR5 - Brick Cavity	8.2	ESE	Principal Suite	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	10.1	NNE	Principal Suite	Yes	No
2 : FR5 - Brick Cavity	7	WNW	Principal Suite	No	No
2 : FR5 - Brick Cavity	4.6	ESE	Ens.	No	No
2 : FR5 - Brick Cavity	6.5	ESE	Bath	No	No
2 : FR5 - Brick Cavity	7.1	WNW	Bed 2	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	10	SSW	Bed 2	Yes	No
2 : FR5 - Brick Cavity	7.5	ESE	Bed 2	No	No
2 : FR5 - Brick Cavity	13	WNW	Sitting	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	58.5	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	21.2	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	3.6	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	22.9	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	1.6	Enclosed	0.0	Tiles
Principal Suite	Timber	13.7	Enclosed	0.0	Carpet
Ens.	Timber	4	Enclosed	0.0	Tiles
Bath	Timber	5.6	Enclosed	0.0	Tiles
Bed 2	Timber	12.9	Enclosed	0.0	Carpet
Sitting	Timber	10.5	Enclosed	0.0	Carpet

### Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **EMXYQ8B5FO**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.4**

## Building Features

Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	2.5	No
Principal Suite	Plasterboard	2.5	No
Ens.	Plasterboard	2.5	No
Bath	Plasterboard	2.5	No
Bed 2	Plasterboard	2.5	No
Sitting	Plasterboard	2.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **EMXYQ8B5FO**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.4**

## Additional information

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: QN6CO81RGG

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 182 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

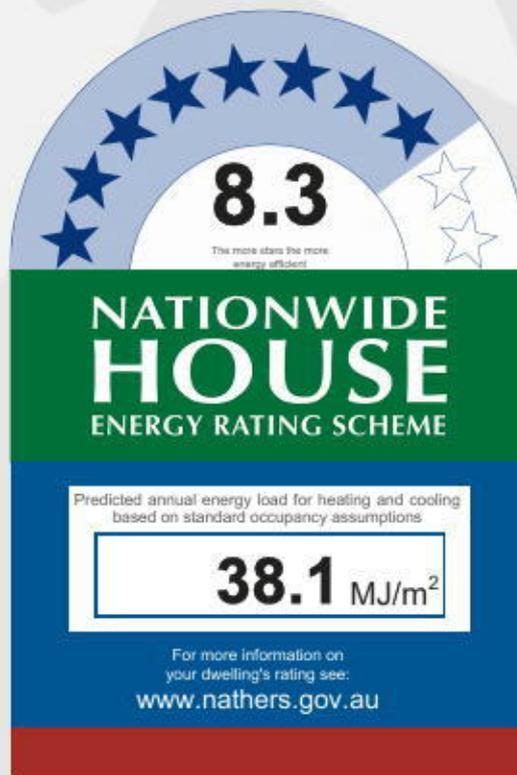
Conditioned: 107.9  
Unconditioned: 1.5  
Garage: -  
TOTAL: 109.4

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

Heating: 11  
Cooling: 27.1  
TOTAL: 38.1

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: QN6CO81RGG

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 25	1800	2410	N	Living	No
ALM-002-01 A	Opening 26	2100	3600	S	Kitchen/Family/Dining	No
ALM-002-01 A	Opening 29	1800	610	N	Principal Suite	No
ALM-002-01 A	Opening 28	2100	1509	N	Principal Suite	No
ALM-002-01 A	Opening 27	1200	610	N	Ens.	No
ALM-002-01 A	Opening 30	1200	850	S	Bed 2	No
ALM-002-01 A	Opening 31	1200	1810	S	Bed 3	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
2 : FR5 - Brick Cavity		No
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : 014 - Brick Veneer R 1 . 5	11.5	NNE	Living	No	No
2 : FR5 - Brick Cavity	8.3	WNW	Living	No	No
2 : FR5 - Brick Cavity	14.8	ESE	Living	No	No
2 : FR5 - Brick Cavity	3.8	WNW	Ldry	No	No
2 : FR5 - Brick Cavity	2.3	WNW	WC	No	No
2 : FR5 - Brick Cavity	17.3	WNW	Kitchen/Family/Dining	No	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: QN6CO81RGG

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Building Features

1 : 014 - Brick Veneer R 1 . 5	11.5	SSW	Kitchen/Family/Dining	No	No
2 : FR5 - Brick Cavity	17.2	ESE	Kitchen/Family/Dining	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	3.3	NNE	Principal Suite	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	5.1	NNE	Principal Suite	Yes	Yes
2 : FR5 - Brick Cavity	3.3	WNW	Principal Suite	No	No
2 : FR5 - Brick Cavity	7.6	ESE	Principal Suite	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	2.8	NNE	Ens.	Yes	Yes
2 : FR5 - Brick Cavity	6	WNW	Ens.	No	No
2 : FR5 - Brick Cavity	4.8	WNW	Bath	No	No
2 : FR5 - Brick Cavity	6.5	WNW	Bed 2	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	2.9	SSW	Bed 2	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	6.8	WNW	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	8.6	SSW	Bed 3	Yes	No
2 : FR5 - Brick Cavity	6.8	ESE	Bed 3	No	No
2 : FR5 - Brick Cavity	13.3	ESE	Stairs	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	79.3	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	23.1	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	4.2	Enclosed	0.0	Tiles
WC	CSOG: Slab on Ground	1.5	Enclosed	0.0	Tiles
Kitchen/Family/Dining	CSOG: Slab on Ground	23.5	Enclosed	0.0	Tiles
Kitchen/Family/Dining	Timber	10.6	Enclosed	0.0	Carpet
Principal Suite	Timber	14.8	Enclosed	0.0	Carpet
Ens.	Timber	2.9	Enclosed	0.0	Tiles
Bath	Timber	5.1	Enclosed	0.0	Tiles
Bed 2	Timber	7.9	Enclosed	0.0	Carpet
Bed 3	Timber	10.1	Enclosed	0.0	Carpet
Stairs	Timber	10	Enclosed	0.0	Carpet

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: QN6CO81RGG

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Building Features

### Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	0.0	No
Kitchen/Family/Dining	Plasterboard	2.5	No
Principal Suite	Plasterboard	2.5	No
Ens.	Plasterboard	2.5	No
Bath	Plasterboard	2.5	No
Bed 2	Plasterboard	2.5	No
Bed 3	Plasterboard	2.5	No
Stairs	Plasterboard	2.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	dark

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: QN6CO81RGG

Date of Certificate: 7 Aug 2015

★ Star rating: 8.3



## Additional information

## Explanatory notes

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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](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **KVFJ0VDLKF**

Date of Certificate: **7 Aug 2015**

★ Star rating: **6.3**

## Assessor details

Accreditation number: **20311**  
Name: **V.Vicaretti**  
Organisation: **akv pty ltd**  
Email: **info@akvptyltd.com.au**  
Phone: **0414 426 546**  
Declaration of interest: **No potential conflicts of interest to declare**  
Software: **FirstRate5: 5.2.1 (3.13)**  
AAO: **ABSA**

## Overview

### Dwelling details

Address: **Lot 183 The Promenade**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Home** NCC Class: **Class 1a**  
Lot/DP number: **-** NatHERS climate zone: **28**  
Exposure: **suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: **Brick Veneer**  
Roof: **Concrete Tile**  
Floor: **Concrete**  
Insulation: Wall: **R1.5 Bulk Insulation**  
Roof: **R2.5 Bulk Insulation**  
Floor: **None**  
Glazing: **Aluminium Clear**

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

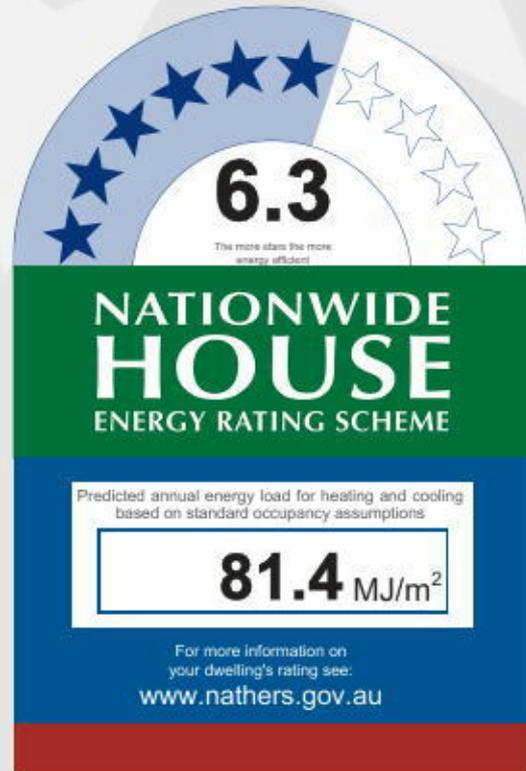
Conditioned: **128.2**  
Unconditioned: **1.7**  
Garage: **-**  
TOTAL: **129.9**

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

Heating: **39.8**  
Cooling: **41.6**  
TOTAL: **81.4**

### Plan documents

Plan ref/date: **-**  
Prepared by: **-**



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **No downlights modelled**

\*\*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=KVFJ0VDLKF>

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: KVFJ0VDLKF

Date of Certificate: 7 Aug 2015

★ Star rating: 6.3

## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 38	2400	2400	N	Living	No
ALM-002-01 A	Opening 39	2400	2710	S	Kitchen/Living	No
ALM-002-01 A	Opening 40	2100	1570	N	Prinicpal Suite	No
ALM-002-01 A	Opening 41	1800	610	N	Hall	No
ALM-002-01 A	Opening 42	1200	850	S	Bed 2	No
ALM-002-01 A	Opening 43	1200	1810	S	Bed 3	No
ALM-002-01 A	Opening 49	2100	2410	N	Entertainment	No
ALM-002-01 A	Opening 50	1800	610	N	Entertainment	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
2 : FR5 - Brick Cavity		No
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : 014 - Brick Veneer R 1 . 5	8.6	ESE	Living	No	No
1 : 014 - Brick Veneer R 1 . 5	8	NNE	Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	3.4	NNE	Living	Yes	Yes
2 : FR5 - Brick Cavity	8.6	WNW	Living	No	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **KVFJ0VDLKF**

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★ Star rating: **6.3**

## Building Features

2 : FR5 - Brick Cavity	4	WNW	wc	No	No
1 : 014 - Brick Veneer R 1 . 5	3.8	ESE	Ldry	No	No
1 : 014 - Brick Veneer R 1 . 5	2.8	ESE	Pntry	No	No
2 : FR5 - Brick Cavity	19.1	WNW	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	11.5	SSW	Kitchen/Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	16.5	ESE	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	9.4	ESE	Prinicpal Suite	No	No
1 : 014 - Brick Veneer R 1 . 5	8.3	NNE	Prinicpal Suite	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	0.5	NNE	Prinicpal Suite	No	No
1 : 014 - Brick Veneer R 1 . 5	2.5	NNE	Hall	Yes	No
2 : FR5 - Brick Cavity	25.5	WNW	Hall	No	No
1 : 014 - Brick Veneer R 1 . 5	3.7	ESE	Ens.	No	No
1 : 014 - Brick Veneer R 1 . 5	5.3	ESE	Bath	No	No
1 : 014 - Brick Veneer R 1 . 5	2.9	SSW	Bed 2	Yes	No
1 : 014 - Brick Veneer R 1 . 5	7.9	ESE	Bed 2	No	No
2 : FR5 - Brick Cavity	6.7	WNW	Bed 3	No	No
1 : 014 - Brick Veneer R 1 . 5	8.6	SSW	Bed 3	No	No
1 : 014 - Brick Veneer R 1 . 5	5.4	ESE	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	11.5	NNE	Entertainment	No	No
2 : FR5 - Brick Cavity	8.6	WNW	Entertainment	No	No
1 : 014 - Brick Veneer R 1 . 5	11.5	SSW	Entertainment	No	No
1 : 014 - Brick Veneer R 1 . 5	8.6	ESE	Entertainment	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	103.9	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	17.1	Enclosed	0.0	Tiles
wc	CSOG: Slab on Ground	1.7	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	2.7	Enclosed	0.0	Tiles
Hall	CSOG: Slab on Ground	4.7	Enclosed	0.0	Tiles
Pntry	CSOG: Slab on Ground	3.1	Enclosed	0.0	Tiles

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: KVFJ0VDLKF

Date of Certificate: 7 Aug 2015

★ Star rating: 6.3

## Building Features

Kitchen/Living	CSOG: Slab on Ground	31.2	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	1.9	Enclosed	0.0	Tiles
Prinicpal Suite	Timber	14.3	Enclosed	0.0	Carpet
Hall	Timber	13.4	Enclosed	0.0	Carpet
Hall	Timber	3.7	Enclosed	0.0	Carpet
Ens.	Timber	4.4	Enclosed	0.0	Tiles
Bath	Timber	6.2	Enclosed	0.0	Tiles
Bed 2	Timber	8.3	Enclosed	0.0	Carpet
Bed 3	Timber	9.1	Enclosed	0.0	Carpet
Entertainment	Timber	17.2	Enclosed	0.0	Carpet

## Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
wc	Plasterboard	0.0	No
wc	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Pntry	Plasterboard	0.0	No
Pntry	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	3.5	No
Prinicpal Suite	Plasterboard	0.0	No
Hall	Plasterboard	3.5	No
Hall	Plasterboard	0.0	No
Ens.	Plasterboard	3.5	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: KVFJ0VDLKF

Date of Certificate: 7 Aug 2015

★ Star rating: 6.3

## Building Features

Bath	Plasterboard	3.5	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Entertainment	Plasterboard	3.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: KVFJ0VDLKF

Date of Certificate: 7 Aug 2015

★ Star rating: 6.3



## 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.

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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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

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# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **MWF2X65RYQ**

Date of Certificate: **7 Aug 2015**

★ Star rating: **7**

## Assessor details

Accreditation number: **20311**  
Name: **V.Vicaretti**  
Organisation: **akv Pty Ltd**  
Email: **info@akvptyltd.com.au**  
Phone: **0414 426 546**  
Declaration of interest: **No potential conflicts of interest to declare**  
Software: **FirstRate5: 5.2.1 (3.13)**  
AAO: **ABSA**

## Overview

### Dwelling details

Address: **Lot 184 The Promenade**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Home** NCC Class: **Class 1a**  
Lot/DP number: **-** NatHERS climate zone: **28**  
Exposure: **suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: **Brick Veneer**  
Roof: **Concrete Tile**  
Floor: **Concrete**  
Insulation: Wall: **R1.5 Bulk Insulation**  
Roof: **R2.5 Bulk Insulation**  
Floor: **None**  
Glazing: **Aluminium Clear**

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

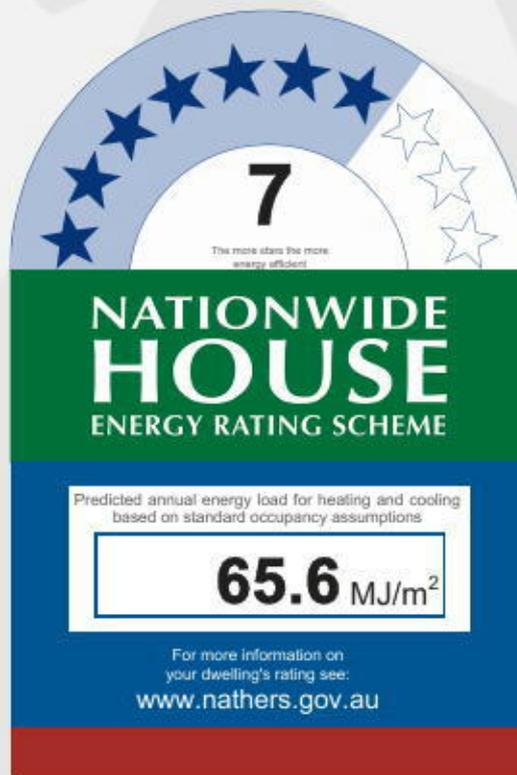
Conditioned: **180.3**  
Unconditioned: **1.9**  
Garage: **-**  
TOTAL: **182.2**

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

Heating: **35.5**  
Cooling: **30.1**  
TOTAL: **65.6**

### Plan documents

Plan ref/date: **-**  
Prepared by: **-**



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: **No downlights modelled**

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

Certificate Number: **MWF2X65RYQ**

Date of Certificate: **7 Aug 2015**

★ Star rating: **7**



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 56	2400	2400	N	Living	No
ALM-002-01 A	Opening 58	2400	2700	S	Kitchen/Living	No
ALM-001-01 A	Opening 57	1800	1500	S	Kitchen/Living	No
ALM-002-01 A	Opening 65	2100	2100	N	Principal Suite	No
ALM-002-01 A	Opening 67	1200	610	N	Principal Suite	No
ALM-002-01 A	Opening 66	1800	610	N	Nook	No
ALM-002-01 A	Opening 68	1200	1500	S	Bed 2	No
ALM-002-01 A	Opening 69	1200	1810	S	Bed 3	No
ALM-002-01 A	Opening 70	2100	2410	N	Entertainment	No
ALM-002-01 A	Opening 71	1800	610	N	Entertainment	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

### External wall type

Type	Insulation	Wall wrap
1 : FR5 - Brick Cavity		No
2 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Cavity	8.7	ESE	Living	No	No
2 : 014 - Brick Veneer R 1 . 5	11.6	NNE	Living	Yes	Yes

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **MWF2X65RYQ**

Date of Certificate: **7 Aug 2015**

★ Star rating: **7**

## Building Features

2 : 014 - Brick Veneer R 1 . 5	3.6	NNE	Living	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	8.7	WNW	Living	No	No
2 : 014 - Brick Veneer R 1 . 5	4.3	WNW	WC	No	No
1 : FR5 - Brick Cavity	4.7	ESE	Ldry	No	No
2 : 014 - Brick Veneer R 1 . 5	20.4	WNW	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 1 . 5	9.7	SSW	Kitchen/Living	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	4.7	ESE	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 1 . 5	5.4	SSW	Kitchen/Living	Yes	Yes
1 : FR5 - Brick Cavity	15.3	ESE	Kitchen/Living	No	No
1 : FR5 - Brick Cavity	10.2	ESE	Principal Suite	No	No
2 : 014 - Brick Veneer R 1 . 5	11.6	NNE	Principal Suite	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	1	NNE	Principal Suite	No	No
1 : FR5 - Brick Cavity	3.4	ESE	Ens.	No	No
1 : FR5 - Brick Cavity	6.3	ESE	Bath	No	No
2 : 014 - Brick Veneer R 1 . 5	2.4	NNE	Nook	No	No
2 : 014 - Brick Veneer R 1 . 5	27	WNW	Nook	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	5.4	SSW	Bed 2	Yes	No
1 : FR5 - Brick Cavity	8.4	ESE	Bed 2	No	No
2 : 014 - Brick Veneer R 1 . 5	6.6	WNW	Bed 3	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	9.7	SSW	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	4.7	ESE	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	11.4	NNE	Entertainment	Yes	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	3.7	NNE	Entertainment	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	10.1	WNW	Entertainment	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	15.1	SSW	Entertainment	Yes	No
1 : FR5 - Brick Cavity	10.1	ESE	Entertainment	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	119.3	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	22.8	Enclosed	0.0	Tiles

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **MWF2X65RYQ**

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★ Star rating: **7**

## Building Features

WC	CSOG: Slab on Ground	1.9	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	5.4	Enclosed	0.0	Tiles
Hall	CSOG: Slab on Ground	4.6	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	48.2	Enclosed	0.0	Tiles
Principal Suite	Timber	19.3	Enclosed	0.0	Carpet
Principal Suite	Timber	2.9	Enclosed	0.0	Carpet
Ens.	Timber	5.1	Enclosed	0.0	Tiles
Bath	Timber	8	Enclosed	0.0	Tiles
WC	Timber	1.5	Enclosed	0.0	Tiles
Nook	Timber	19	Enclosed	0.0	Carpet
Nook	Timber	3.6	Enclosed	0.0	Carpet
Bed 2	Timber	11.6	Enclosed	0.0	Carpet
Bed 3	Timber	10.6	Enclosed	0.0	Carpet
Entertainment	Timber	26.4	Enclosed	0.0	Carpet

## Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Principal Suite	Plasterboard	0.0	No
Principal Suite	Plasterboard	0.0	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **MWF2X65RYQ**

Date of Certificate: **7 Aug 2015**

★ Star rating: **7**

## Building Features

Ens.	Plasterboard	3.5	No
Bath	Plasterboard	3.5	No
WC	Plasterboard	3.5	No
Nook	Plasterboard	0.0	No
Nook	Plasterboard	3.5	No
Nook	Plasterboard	0.0	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Entertainment	Plasterboard	3.5	No

### 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
Ceil: Ceiling	1.0	medium
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: **MWF2X65RYQ**

Date of Certificate: **7 Aug 2015**

★ Star rating: **7**



## Additional information

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### Disclaimer

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### Contact

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# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: 0N0TOUGBDL

Date of Certificate: 7 Aug 2015

★ Star rating: 8.5

## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 185 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

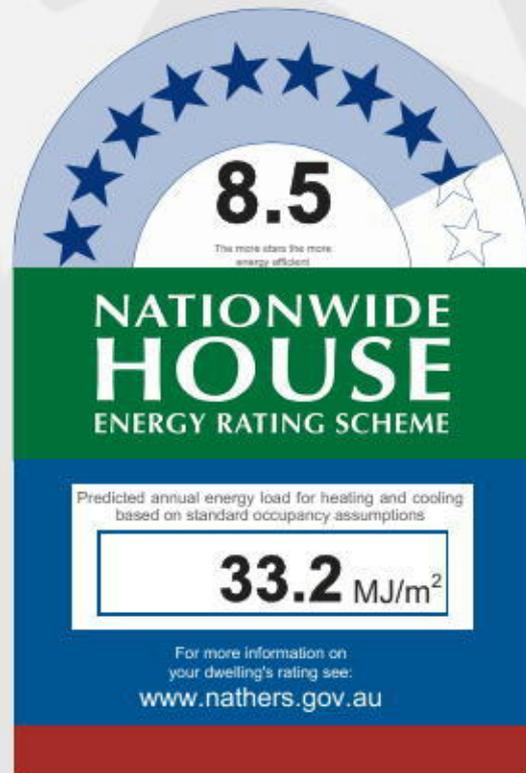
Conditioned: 88.4  
Unconditioned: 3.6  
Garage: -  
TOTAL: 92

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

Heating: 14.5  
Cooling: 18.7  
TOTAL: 33.2

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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.

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# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: 0N0TOUGBDL

Date of Certificate: 7 Aug 2015

★ Star rating: 8.5

## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 35	2100	1570	N	Living	No
ALM-002-01 A	Opening 36	2100	3609	S	Kitchen/Living	No
ALM-002-01 A	Opening 42	2100	1510	N	Principal Suite	No
ALM-002-01 A	Opening 43	1800	610	N	Principal Suite	No
ALM-002-01 A	Opening 41	1200	1810	S	Bed 2	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : FR5 - Brick Cavity		No
2 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Cavity	9.5	WNW	Living	No	No
1 : FR5 - Brick Cavity	15.5	ESE	Living	No	No
2 : 014 - Brick Veneer R 1 . 5	3.3	NNE	Living	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	6.8	NNE	Living	Yes	Yes
1 : FR5 - Brick Cavity	4.4	WNW	Ldry	No	No
1 : FR5 - Brick Cavity	14.5	WNW	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 1 . 5	10	SSW	Kitchen/Living	Yes	Yes
1 : FR5 - Brick Cavity	13.1	ESE	Kitchen/Living	No	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: 0N0TOUGBDL

Date of Certificate: 7 Aug 2015

★ Star rating: 8.5

## Building Features

1 : FR5 - Brick Cavity	7	ESE	Principal Suite	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	10.1	NNE	Principal Suite	Yes	No
1 : FR5 - Brick Cavity	8.2	WNW	Principal Suite	No	No
1 : FR5 - Brick Cavity	4.6	WNW	Ens.	No	No
1 : FR5 - Brick Cavity	6.5	WNW	Bath	No	No
1 : FR5 - Brick Cavity	7.5	WNW	Bed 2	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	10	SSW	Bed 2	Yes	No
1 : FR5 - Brick Cavity	7.1	ESE	Bed 2	No	No
1 : FR5 - Brick Cavity	13	ESE	Sitting	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	58.5	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	21.2	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	3.6	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	22.9	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	1.6	Enclosed	0.0	Tiles
Principal Suite	Timber	13.7	Enclosed	0.0	Carpet
Ens.	Timber	4	Enclosed	0.0	Tiles
Bath	Timber	5.6	Enclosed	0.0	Tiles
Bed 2	Timber	12.9	Enclosed	0.0	Carpet
Sitting	Timber	10.5	Enclosed	0.0	Carpet

### Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: 0N0TOUGBDL

Date of Certificate: 7 Aug 2015

★ Star rating: 8.5

## Building Features

Ldry	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	2.5	No
Principal Suite	Plasterboard	2.5	No
Ens.	Plasterboard	2.5	No
Bath	Plasterboard	2.5	No
Bed 2	Plasterboard	2.5	No
Sitting	Plasterboard	2.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: **0N0TOUGBDL**

Date of Certificate: **7 Aug 2015**

★ Star rating: **8.5**

## 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.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 5CGLOQ4ANO

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 186 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

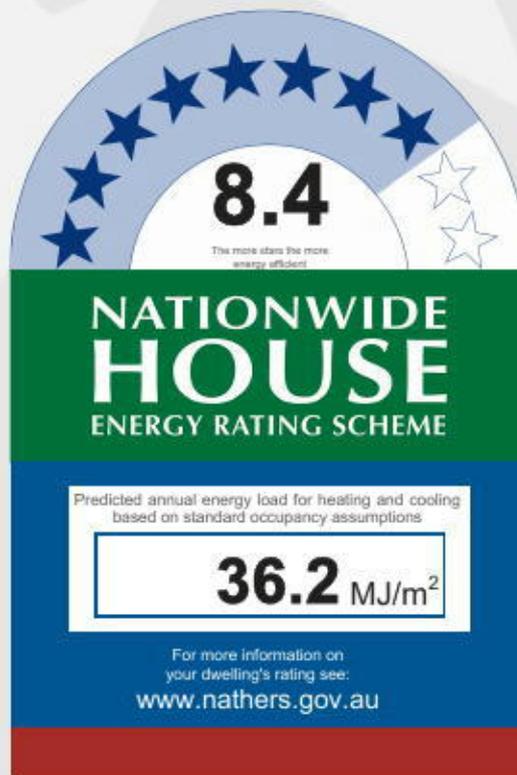
Conditioned: 140.8  
Unconditioned: 4.5  
Garage: -  
TOTAL: 145.3

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

Heating: 17.1  
Cooling: 19.1  
TOTAL: 36.2

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

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

Certificate Number: 5CGLOQ4ANO

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 44	2400	1500	N	Living	No
ALM-001-01 A	Opening 45	2400	850	N	Living	No
ALM-002-01 A	Opening 51	2100	2700	S	Kitchen/Living	No
ALM-001-01 A	Opening 49	1800	610	S	Kitchen/Living	No
ALM-001-01 A	Opening 50	1800	610	S	Kitchen/Living	No
ALM-002-01 A	Opening 52	2100	850	N	Principal Suite	No
ALM-002-01 A	Opening 53	2100	1570	N	Principal Suite	No
ALM-002-01 A	Opening 54	2100	850	N	WIR	No
ALM-002-01 A	Opening 56	1200	1810	S	Bed 2	No
ALM-002-01 A	Opening 55	1200	1810	S	Bed 3	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
2 : FR5 - Brick Cavity		No
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : 014 - Brick Veneer R 1 . 5	15.2	NNE	Living	Yes	Yes
2 : FR5 - Brick Cavity	9.9	WNW	Living	No	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 5CGLOQ4ANO

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Building Features

2 : FR5 - Brick Cavity	16.3	ESE	Living	No	No
2 : FR5 - Brick Cavity	4.9	WNW	Ldry	No	No
2 : FR5 - Brick Cavity	12.5	WNW	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	7.8	SSW	Kitchen/Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	5.5	WNW	Kitchen/Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	7.5	SSW	Kitchen/Living	No	Yes
2 : FR5 - Brick Cavity	16.7	ESE	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	10.3	NNE	Principal Suite	Yes	Yes
2 : FR5 - Brick Cavity	8.2	WNW	Principal Suite	No	No
2 : FR5 - Brick Cavity	8.2	ESE	WIR	No	No
1 : 014 - Brick Veneer R 1 . 5	4.7	NNE	WIR	Yes	No
2 : FR5 - Brick Cavity	3.5	WNW	ens.	No	No
2 : FR5 - Brick Cavity	4.7	WNW	Bath	No	No
2 : FR5 - Brick Cavity	10.7	WNW	Bed 2	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	7.5	SSW	Bed 2	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	7.6	SSW	Bed 3	No	No
2 : FR5 - Brick Cavity	8.6	ESE	Bed 3	No	No
2 : FR5 - Brick Cavity	10.5	ESE	Nook	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	92	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	36.6	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	4.5	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	31.8	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	6.5	Enclosed	0.0	Tiles
Principal Suite	Timber	14.7	Enclosed	0.0	Carpet
WIR	Timber	6.7	Enclosed	0.0	Carpet
ens.	Timber	3.7	Enclosed	0.0	Tiles
Bath	Timber	6	Enclosed	0.0	Tiles
Bed 2	Timber	13.8	Enclosed	0.0	Carpet

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 5CGLOQ4ANO

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Building Features

Bed 3	Timber	11.1	Enclosed	0.0	Carpet
Nook	Timber	15	Enclosed	0.0	Carpet

### Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	3.5	No
Principal Suite	Plasterboard	3.5	No
WIR	Plasterboard	3.5	No
ens.	Plasterboard	3.5	No
Bath	Plasterboard	3.5	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Nook	Plasterboard	3.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: 5CGLOQ4ANO

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Additional information

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: YH383OX3K8

Date of Certificate: 7 Aug 2015

★ Star rating: 7



## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 187 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

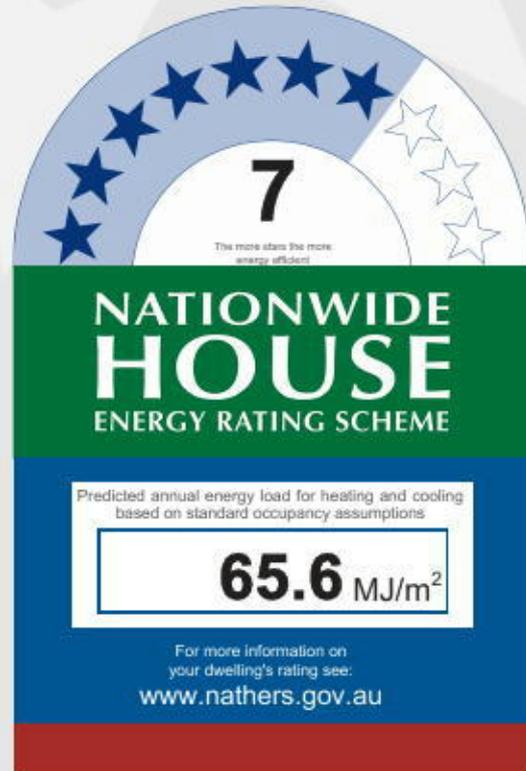
Conditioned: 180.3  
Unconditioned: 1.9  
Garage: -  
TOTAL: 182.2

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

Heating: 35.5  
Cooling: 30.1  
TOTAL: 65.6

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: YH383OX3K8

Date of Certificate: 7 Aug 2015

★ Star rating: 7



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 56	2400	2400	N	Living	No
ALM-002-01 A	Opening 58	2400	2700	S	Kitchen/Living	No
ALM-001-01 A	Opening 57	1800	1500	S	Kitchen/Living	No
ALM-002-01 A	Opening 65	2100	2100	N	Principal Suite	No
ALM-002-01 A	Opening 67	1200	610	N	Principal Suite	No
ALM-002-01 A	Opening 66	1800	610	N	Nook	No
ALM-002-01 A	Opening 68	1200	1500	S	Bed 2	No
ALM-002-01 A	Opening 69	1200	1810	S	Bed 3	No
ALM-002-01 A	Opening 70	2100	2410	N	Enterainment	No
ALM-002-01 A	Opening 71	1800	610	N	Enterainment	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : FR5 - Brick Cavity		No
2 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Cavity	8.7	ESE	Living	No	No
2 : 014 - Brick Veneer R 1 . 5	11.6	NNE	Living	Yes	Yes

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: YH383OX3K8

Date of Certificate: 7 Aug 2015

★ Star rating: 7

## Building Features

2 : 014 - Brick Veneer R 1 . 5	3.6	NNE	Living	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	8.7	WNW	Living	No	No
2 : 014 - Brick Veneer R 1 . 5	4.3	WNW	WC	No	No
1 : FR5 - Brick Cavity	4.7	ESE	Ldry	No	No
2 : 014 - Brick Veneer R 1 . 5	20.4	WNW	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 1 . 5	9.7	SSW	Kitchen/Living	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	4.7	ESE	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 1 . 5	5.4	SSW	Kitchen/Living	Yes	Yes
1 : FR5 - Brick Cavity	15.3	ESE	Kitchen/Living	No	No
1 : FR5 - Brick Cavity	10.2	ESE	Principal Suite	No	No
2 : 014 - Brick Veneer R 1 . 5	11.6	NNE	Principal Suite	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	1	NNE	Principal Suite	No	No
1 : FR5 - Brick Cavity	3.4	ESE	Ens.	No	No
1 : FR5 - Brick Cavity	6.3	ESE	Bath	No	No
2 : 014 - Brick Veneer R 1 . 5	2.4	NNE	Nook	No	No
2 : 014 - Brick Veneer R 1 . 5	27	WNW	Nook	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	5.4	SSW	Bed 2	Yes	No
1 : FR5 - Brick Cavity	8.4	ESE	Bed 2	No	No
2 : 014 - Brick Veneer R 1 . 5	6.6	WNW	Bed 3	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	9.7	SSW	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	4.7	ESE	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	11.4	NNE	Entertainment	Yes	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	3.7	NNE	Entertainment	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	10.1	WNW	Entertainment	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	15.1	SSW	Entertainment	Yes	No
1 : FR5 - Brick Cavity	10.1	ESE	Entertainment	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	119.3	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	22.8	Enclosed	0.0	Tiles

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: YH383OX3K8

Date of Certificate: 7 Aug 2015

★ Star rating: 7

## Building Features

WC	CSOG: Slab on Ground	1.9	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	5.4	Enclosed	0.0	Tiles
Hall	CSOG: Slab on Ground	4.6	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	48.2	Enclosed	0.0	Tiles
Principal Suite	Timber	19.3	Enclosed	0.0	Carpet
Principal Suite	Timber	2.9	Enclosed	0.0	Carpet
Ens.	Timber	5.1	Enclosed	0.0	Tiles
Bath	Timber	8	Enclosed	0.0	Tiles
WC	Timber	1.5	Enclosed	0.0	Tiles
Nook	Timber	19	Enclosed	0.0	Carpet
Nook	Timber	3.6	Enclosed	0.0	Carpet
Bed 2	Timber	11.6	Enclosed	0.0	Carpet
Bed 3	Timber	10.6	Enclosed	0.0	Carpet
Entertainment	Timber	26.4	Enclosed	0.0	Carpet

## Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Principal Suite	Plasterboard	0.0	No
Principal Suite	Plasterboard	0.0	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: YH383OX3K8

Date of Certificate: 7 Aug 2015

★ Star rating: 7



## Building Features

Ens.	Plasterboard	3.5	No
Bath	Plasterboard	3.5	No
WC	Plasterboard	3.5	No
Nook	Plasterboard	0.0	No
Nook	Plasterboard	3.5	No
Nook	Plasterboard	0.0	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Entertainment	Plasterboard	3.5	No

### 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
Ceil: Ceiling	1.0	medium
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: YH383OX3K8

Date of Certificate: 7 Aug 2015

★ Star rating: 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.

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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](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: IXY5SS511I

Date of Certificate: 7 Aug 2015

★ Star rating: 5.7

## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 188 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

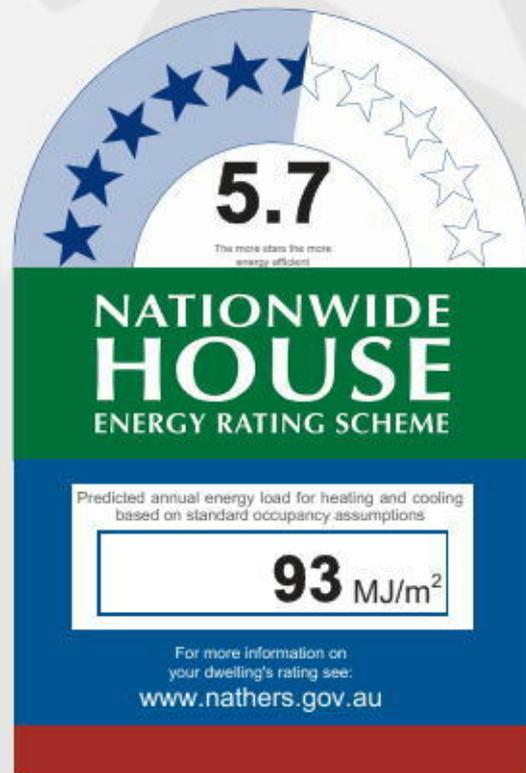
Conditioned: 180.3  
Unconditioned: 1.9  
Garage: -  
TOTAL: 182.2

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

Heating: 53.6  
Cooling: 39.4  
TOTAL: 93

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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=IXY5SS511I>

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: IXY5SS511I

Date of Certificate: 7 Aug 2015

★ Star rating: 5.7



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 56	2400	2400	N	Living	No
ALM-002-01 A	Opening 58	2400	2700	S	Kitchen/Living	No
ALM-001-01 A	Opening 57	1800	1500	S	Kitchen/Living	No
ALM-002-01 A	Opening 65	2100	2100	N	Principal Suite	No
ALM-002-01 A	Opening 67	1200	610	N	Principal Suite	No
ALM-002-01 A	Opening 66	1800	610	N	Nook	No
ALM-002-01 A	Opening 68	1200	1500	S	Bed 2	No
ALM-002-01 A	Opening 69	1200	1810	S	Bed 3	No
ALM-002-01 A	Opening 70	2100	2410	N	Entertainment	No
ALM-002-01 A	Opening 71	1800	610	N	Entertainment	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
2 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : 014 - Brick Veneer R 1 . 5	8.7	ESE	Living	No	No
1 : 014 - Brick Veneer R 1 . 5	11.6	NNE	Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	3.6	NNE	Living	Yes	Yes

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: IXY5SS511I

Date of Certificate: 7 Aug 2015

★ Star rating: 5.7

## Building Features

1 : 014 - Brick Veneer R 1 . 5	8.7	WNW	Living	No	No
1 : 014 - Brick Veneer R 1 . 5	4.3	WNW	WC	No	No
1 : 014 - Brick Veneer R 1 . 5	4.7	ESE	Ldry	No	No
1 : 014 - Brick Veneer R 1 . 5	20.4	WNW	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	9.7	SSW	Kitchen/Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	4.7	ESE	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	5.4	SSW	Kitchen/Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	15.3	ESE	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	10.2	ESE	Principal Suite	No	No
1 : 014 - Brick Veneer R 1 . 5	11.6	NNE	Principal Suite	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	1	NNE	Principal Suite	No	No
1 : 014 - Brick Veneer R 1 . 5	3.4	ESE	Ens.	No	No
1 : 014 - Brick Veneer R 1 . 5	6.3	ESE	Bath	No	No
1 : 014 - Brick Veneer R 1 . 5	2.4	NNE	Nook	No	No
1 : 014 - Brick Veneer R 1 . 5	27	WNW	Nook	No	No
2 : 014 - Weatherboard Foil R 2.0 Batt	5.4	SSW	Bed 2	Yes	No
1 : 014 - Brick Veneer R 1 . 5	8.4	ESE	Bed 2	No	No
1 : 014 - Brick Veneer R 1 . 5	6.6	WNW	Bed 3	No	No
2 : 014 - Weatherboard Foil R 2.0 Batt	9.7	SSW	Bed 3	Yes	No
2 : 014 - Weatherboard Foil R 2.0 Batt	4.7	ESE	Bed 3	Yes	No
2 : 014 - Weatherboard Foil R 2.0 Batt	11.4	NNE	Entertainment	Yes	Yes
2 : 014 - Weatherboard Foil R 2.0 Batt	3.7	NNE	Entertainment	No	No
2 : 014 - Weatherboard Foil R 2.0 Batt	10.1	WNW	Entertainment	Yes	No
2 : 014 - Weatherboard Foil R 2.0 Batt	15.1	SSW	Entertainment	Yes	No
2 : 014 - Weatherboard Foil R 2.0 Batt	10.1	ESE	Entertainment	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	119.3	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	22.8	Enclosed	0.0	Tiles
WC	CSOG: Slab on Ground	1.9	Enclosed	0.0	Tiles

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: IXY5SS511I

Date of Certificate: 7 Aug 2015

★ Star rating: 5.7

## Building Features

Ldry	CSOG: Slab on Ground	5.4	Enclosed	0.0	Tiles
Hall	CSOG: Slab on Ground	4.6	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	48.2	Enclosed	0.0	Tiles
Principal Suite	Timber	19.3	Enclosed	0.0	Carpet
Principal Suite	Timber	2.9	Enclosed	0.0	Carpet
Ens.	Timber	5.1	Enclosed	0.0	Tiles
Bath	Timber	8	Enclosed	0.0	Tiles
WC	Timber	1.5	Enclosed	0.0	Tiles
Nook	Timber	19	Enclosed	0.0	Carpet
Nook	Timber	3.6	Enclosed	0.0	Carpet
Bed 2	Timber	11.6	Enclosed	0.0	Carpet
Bed 3	Timber	10.6	Enclosed	0.0	Carpet
Entertainment	Timber	26.4	Enclosed	0.0	Carpet

## Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Principal Suite	Plasterboard	0.0	No
Principal Suite	Plasterboard	0.0	No
Ens.	Plasterboard	3.5	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: IXY5SS511I

Date of Certificate: 7 Aug 2015

★ Star rating: 5.7

## Building Features

Bath	Plasterboard	3.5	No
WC	Plasterboard	3.5	No
Nook	Plasterboard	0.0	No
Nook	Plasterboard	3.5	No
Nook	Plasterboard	0.0	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Entertainment	Plasterboard	3.5	No

### 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
Ceiling	1.0	medium
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: IXY5SS511I

Date of Certificate: 7 Aug 2015

★ Star rating: 5.7



## 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.

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# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: F52ULS5OYL

Date of Certificate: 7 Aug 2015

★ Star rating: 6.4

## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 189 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

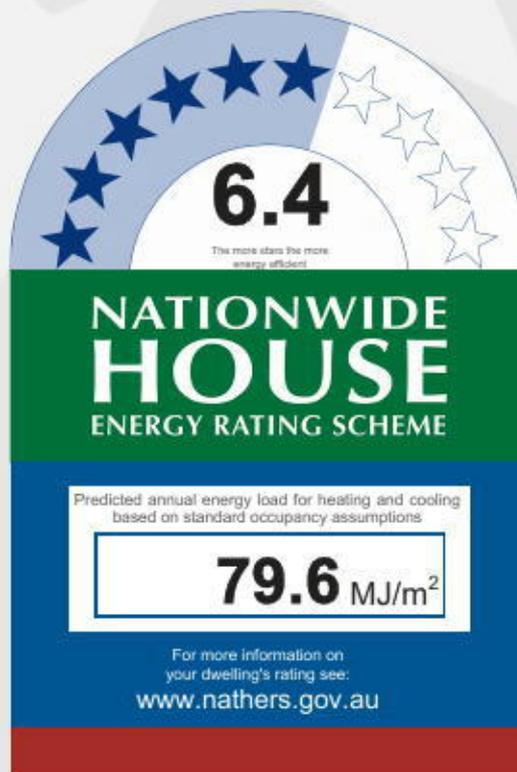
Conditioned: 128.2  
Unconditioned: 1.7  
Garage: -  
TOTAL: 129.9

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

Heating: 38.8  
Cooling: 40.8  
TOTAL: 79.6

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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=F52ULS5OYL>

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: F52ULS5OYL

Date of Certificate: 7 Aug 2015

★ Star rating: 6.4

## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 38	2400	2399	N	Living	No
ALM-002-01 A	Opening 39	2400	2709	S	Kitchen/Living	No
ALM-002-01 A	Opening 40	2100	1570	N	Prinicpal Suite	No
ALM-002-01 A	Opening 41	1800	610	N	Hall	No
ALM-002-01 A	Opening 42	1200	850	S	Bed 2	No
ALM-002-01 A	Opening 43	1200	1810	S	Bed 3	No
ALM-002-01 A	Opening 49	2100	2409	N	Entertainment	No
ALM-002-01 A	Opening 50	1800	610	N	Entertainment	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : FR5 - Brick Cavity		No
2 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Cavity	8.6	ESE	Living	No	No
2 : 014 - Brick Veneer R 1 . 5	3.4	NNE	Living	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	8	NNE	Living	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	8.6	WNW	Living	No	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: F52ULS5OYL

Date of Certificate: 7 Aug 2015

★ Star rating: 6.4

## Building Features

1 : FR5 - Brick Cavity	4	ESE	wc	No	No
2 : 014 - Brick Veneer R 1 . 5	3.8	WNW	Ldry	No	No
2 : 014 - Brick Veneer R 1 . 5	2.8	WNW	Pntry	No	No
2 : 014 - Brick Veneer R 1 . 5	16.5	WNW	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 1 . 5	11.5	SSW	Kitchen/Living	Yes	Yes
1 : FR5 - Brick Cavity	19.1	ESE	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 1 . 5	0.5	NNE	Prinicipal Suite	No	No
2 : 014 - Brick Veneer R 1 . 5	8.3	NNE	Prinicipal Suite	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	9.4	WNW	Prinicipal Suite	No	No
1 : FR5 - Brick Cavity	25.5	ESE	Hall	No	No
2 : 014 - Brick Veneer R 1 . 5	2.5	NNE	Hall	Yes	No
2 : 014 - Brick Veneer R 1 . 5	3.7	WNW	Ens.	No	No
2 : 014 - Brick Veneer R 1 . 5	5.3	WNW	Bath	No	No
2 : 014 - Brick Veneer R 1 . 5	7.9	WNW	Bed 2	No	No
2 : 014 - Brick Veneer R 1 . 5	2.9	SSW	Bed 2	Yes	No
2 : 014 - Brick Veneer R 1 . 5	5.4	WNW	Bed 3	Yes	No
2 : 014 - Brick Veneer R 1 . 5	8.6	SSW	Bed 3	No	No
1 : FR5 - Brick Cavity	6.7	ESE	Bed 3	No	No
2 : 014 - Brick Veneer R 1 . 5	8.6	WNW	Entertainment	No	No
2 : 014 - Brick Veneer R 1 . 5	11.5	SSW	Entertainment	No	No
1 : FR5 - Brick Cavity	8.6	ESE	Entertainment	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	11.5	NNE	Entertainment	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	103.9	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	17.1	Enclosed	0.0	Tiles
wc	CSOG: Slab on Ground	1.7	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	2.7	Enclosed	0.0	Tiles
Hall	CSOG: Slab on Ground	4.7	Enclosed	0.0	Tiles
Pntry	CSOG: Slab on Ground	3.1	Enclosed	0.0	Tiles

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: F52ULS5OYL

Date of Certificate: 7 Aug 2015

★ Star rating: 6.4

## Building Features

Kitchen/Living	CSOG: Slab on Ground	31.2	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	1.9	Enclosed	0.0	Tiles
Prinicpal Suite	Timber	14.3	Enclosed	0.0	Carpet
Hall	Timber	13.4	Enclosed	0.0	Carpet
Hall	Timber	3.7	Enclosed	0.0	Carpet
Ens.	Timber	4.4	Enclosed	0.0	Tiles
Bath	Timber	6.2	Enclosed	0.0	Tiles
Bed 2	Timber	8.3	Enclosed	0.0	Carpet
Bed 3	Timber	9.1	Enclosed	0.0	Carpet
Entertainment	Timber	17.2	Enclosed	0.0	Carpet

## Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
wc	Plasterboard	0.0	No
wc	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Pntry	Plasterboard	0.0	No
Pntry	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	3.5	No
Prinicpal Suite	Plasterboard	0.0	No
Hall	Plasterboard	3.5	No
Hall	Plasterboard	0.0	No
Ens.	Plasterboard	3.5	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: F52ULS5OYL

Date of Certificate: 7 Aug 2015

★ Star rating: 6.4

## Building Features

Bath	Plasterboard	3.5	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Entertainment	Plasterboard	3.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: F52ULS5OYL

Date of Certificate: 7 Aug 2015

★ Star rating: 6.4



## 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](http://www.nathers.gov.au)

For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: VZ1OWQA37Q

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 190 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

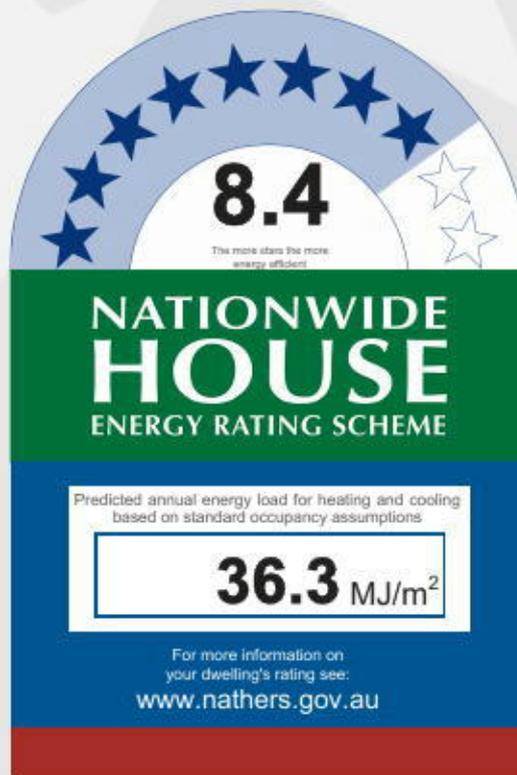
Conditioned: 140.9  
Unconditioned: 4.5  
Garage: -  
TOTAL: 145.4

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

Heating: 16.9  
Cooling: 19.4  
TOTAL: 36.3

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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=VZ1OWQA37Q>

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: VZ10WQA37Q

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 44	2400	1500	N	Living	No
ALM-001-01 A	Opening 45	2400	849	N	Living	No
ALM-001-01 A	Opening 49	1800	610	S	Kitchen/Living	No
ALM-001-01 A	Opening 50	1800	610	S	Kitchen/Living	No
ALM-002-01 A	Opening 51	2100	2700	S	Kitchen/Living	No
ALM-002-01 A	Opening 52	2100	850	N	Principal Suite	No
ALM-002-01 A	Opening 53	2100	1570	N	Principal Suite	No
ALM-002-01 A	Opening 54	2100	850	N	WIR	No
ALM-002-01 A	Opening 56	1200	1810	S	Bed 2	No
ALM-002-01 A	Opening 55	1200	1809	S	Bed 3	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

### External wall type

Type	Insulation	Wall wrap
1 : FR5 - Brick Cavity		No
2 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Cavity	16.3	WNW	Living	No	No
1 : FR5 - Brick Cavity	9.9	ESE	Living	No	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: VZ10WQA37Q

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Building Features

2 : 014 - Brick Veneer R 1 . 5	15.2	NNE	Living	Yes	Yes
1 : FR5 - Brick Cavity	4.9	ESE	Ldry	No	No
1 : FR5 - Brick Cavity	16.7	WNW	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 1 . 5	7.5	SSW	Kitchen/Living	No	Yes
2 : 014 - Brick Veneer R 1 . 5	5.5	ESE	Kitchen/Living	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	7.8	SSW	Kitchen/Living	Yes	Yes
1 : FR5 - Brick Cavity	12.5	ESE	Kitchen/Living	No	No
1 : FR5 - Brick Cavity	8.2	ESE	Principal Suite	No	No
2 : 014 - Brick Veneer R 1 . 5	10.3	NNE	Principal Suite	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	4.7	NNE	WIR	Yes	No
1 : FR5 - Brick Cavity	8.2	WNW	WIR	No	No
1 : FR5 - Brick Cavity	3.5	ESE	ens.	No	No
1 : FR5 - Brick Cavity	4.7	ESE	Bath	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	7.5	SSW	Bed 2	No	No
1 : FR5 - Brick Cavity	10.7	ESE	Bed 2	No	No
1 : FR5 - Brick Cavity	8.6	WNW	Bed 3	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	7.6	SSW	Bed 3	No	No
1 : FR5 - Brick Cavity	10.5	WNW	Nook	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	92	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	36.6	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	4.5	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	31.8	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	6.5	Enclosed	0.0	Tiles
Principal Suite	Timber	14.7	Enclosed	0.0	Carpet
WIR	Timber	6.7	Enclosed	0.0	Carpet
ens.	Timber	3.7	Enclosed	0.0	Tiles
Bath	Timber	6	Enclosed	0.0	Tiles
Bed 2	Timber	13.8	Enclosed	0.0	Carpet

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: VZ10WQA37Q

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Building Features

Bed 3	Timber	11.1	Enclosed	0.0	Carpet
Nook	Timber	15	Enclosed	0.0	Carpet

### Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	3.5	No
Principal Suite	Plasterboard	3.5	No
WIR	Plasterboard	3.5	No
ens.	Plasterboard	3.5	No
Bath	Plasterboard	3.5	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Nook	Plasterboard	3.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: VZ10WQA37Q

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: OCDDIINL26

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4

## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 191 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

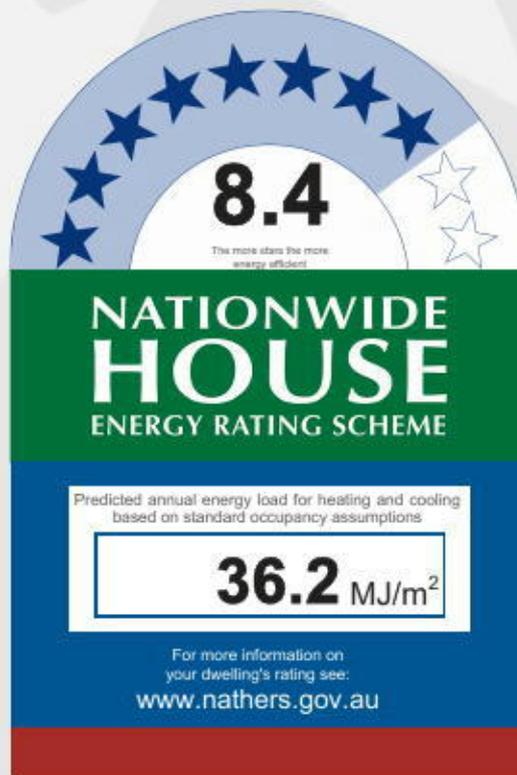
Conditioned: 140.8  
Unconditioned: 4.5  
Garage: -  
TOTAL: 145.3

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

Heating: 17.1  
Cooling: 19.1  
TOTAL: 36.2

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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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<https://www.fr5.com.au/QRCodeLanding?PublicId=OCDDIINL26>

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: OCDDIINL26

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4

## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 44	2400	1500	N	Living	No
ALM-001-01 A	Opening 45	2400	850	N	Living	No
ALM-002-01 A	Opening 51	2100	2700	S	Kitchen/Living	No
ALM-001-01 A	Opening 49	1800	610	S	Kitchen/Living	No
ALM-001-01 A	Opening 50	1800	610	S	Kitchen/Living	No
ALM-002-01 A	Opening 52	2100	850	N	Principal Suite	No
ALM-002-01 A	Opening 53	2100	1570	N	Principal Suite	No
ALM-002-01 A	Opening 54	2100	850	N	WIR	No
ALM-002-01 A	Opening 56	1200	1810	S	Bed 2	No
ALM-002-01 A	Opening 55	1200	1810	S	Bed 3	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
----	---------------------------	------------------------	-------------	-----------	---------------	-----------------------

### External wall type

Type	Insulation	Wall wrap
1 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
2 : FR5 - Brick Cavity		No
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : 014 - Brick Veneer R 1 . 5	15.2	NNE	Living	Yes	Yes
2 : FR5 - Brick Cavity	9.9	WNW	Living	No	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: OCDDIINL26

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## Building Features

2 : FR5 - Brick Cavity	16.3	ESE	Living	No	No
2 : FR5 - Brick Cavity	4.9	WNW	Ldry	No	No
2 : FR5 - Brick Cavity	12.5	WNW	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	7.8	SSW	Kitchen/Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	5.5	WNW	Kitchen/Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	7.5	SSW	Kitchen/Living	No	Yes
2 : FR5 - Brick Cavity	16.7	ESE	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	10.3	NNE	Principal Suite	Yes	Yes
2 : FR5 - Brick Cavity	8.2	WNW	Principal Suite	No	No
2 : FR5 - Brick Cavity	8.2	ESE	WIR	No	No
1 : 014 - Brick Veneer R 1 . 5	4.7	NNE	WIR	Yes	No
2 : FR5 - Brick Cavity	3.5	WNW	ens.	No	No
2 : FR5 - Brick Cavity	4.7	WNW	Bath	No	No
2 : FR5 - Brick Cavity	10.7	WNW	Bed 2	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	7.5	SSW	Bed 2	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	7.6	SSW	Bed 3	No	No
2 : FR5 - Brick Cavity	8.6	ESE	Bed 3	No	No
2 : FR5 - Brick Cavity	10.5	ESE	Nook	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	92	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	36.6	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	4.5	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	31.8	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	6.5	Enclosed	0.0	Tiles
Principal Suite	Timber	14.7	Enclosed	0.0	Carpet
WIR	Timber	6.7	Enclosed	0.0	Carpet
ens.	Timber	3.7	Enclosed	0.0	Tiles
Bath	Timber	6	Enclosed	0.0	Tiles
Bed 2	Timber	13.8	Enclosed	0.0	Carpet

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: OCDDIINL26

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4

## Building Features

Bed 3	Timber	11.1	Enclosed	0.0	Carpet
Nook	Timber	15	Enclosed	0.0	Carpet

### Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	3.5	No
Principal Suite	Plasterboard	3.5	No
WIR	Plasterboard	3.5	No
ens.	Plasterboard	3.5	No
Bath	Plasterboard	3.5	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Nook	Plasterboard	3.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: OCDDIINL26

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4



## 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](http://www.nathers.gov.au)

For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: UDJEJ2PJWK

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4

## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 192 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

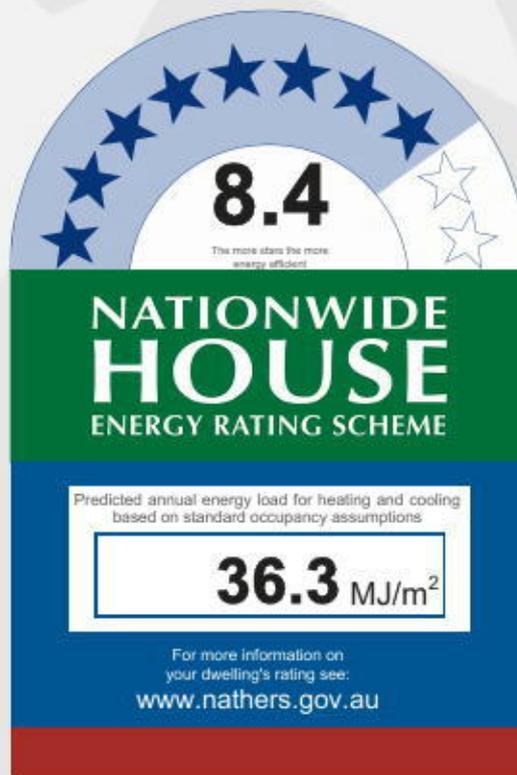
Conditioned: 140.9  
Unconditioned: 4.5  
Garage: -  
TOTAL: 145.4

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

Heating: 16.9  
Cooling: 19.4  
TOTAL: 36.3

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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=UDJEJ2PJWK>

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: UDJEJ2PJWK

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4

## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 44	2400	1500	N	Living	No
ALM-001-01 A	Opening 45	2400	849	N	Living	No
ALM-001-01 A	Opening 49	1800	610	S	Kitchen/Living	No
ALM-001-01 A	Opening 50	1800	610	S	Kitchen/Living	No
ALM-002-01 A	Opening 51	2100	2700	S	Kitchen/Living	No
ALM-002-01 A	Opening 52	2100	850	N	Principal Suite	No
ALM-002-01 A	Opening 53	2100	1570	N	Principal Suite	No
ALM-002-01 A	Opening 54	2100	850	N	WIR	No
ALM-002-01 A	Opening 56	1200	1810	S	Bed 2	No
ALM-002-01 A	Opening 55	1200	1809	S	Bed 3	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : FR5 - Brick Cavity		No
2 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Cavity	16.3	WNW	Living	No	No
1 : FR5 - Brick Cavity	9.9	ESE	Living	No	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: UDJEJ2PJWK

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4

## Building Features

2 : 014 - Brick Veneer R 1 . 5	15.2	NNE	Living	Yes	Yes
1 : FR5 - Brick Cavity	4.9	ESE	Ldry	No	No
1 : FR5 - Brick Cavity	16.7	WNW	Kitchen/Living	No	No
2 : 014 - Brick Veneer R 1 . 5	7.5	SSW	Kitchen/Living	No	Yes
2 : 014 - Brick Veneer R 1 . 5	5.5	ESE	Kitchen/Living	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	7.8	SSW	Kitchen/Living	Yes	Yes
1 : FR5 - Brick Cavity	12.5	ESE	Kitchen/Living	No	No
1 : FR5 - Brick Cavity	8.2	ESE	Principal Suite	No	No
2 : 014 - Brick Veneer R 1 . 5	10.3	NNE	Principal Suite	Yes	Yes
2 : 014 - Brick Veneer R 1 . 5	4.7	NNE	WIR	Yes	No
1 : FR5 - Brick Cavity	8.2	WNW	WIR	No	No
1 : FR5 - Brick Cavity	3.5	ESE	ens.	No	No
1 : FR5 - Brick Cavity	4.7	ESE	Bath	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	7.5	SSW	Bed 2	No	No
1 : FR5 - Brick Cavity	10.7	ESE	Bed 2	No	No
1 : FR5 - Brick Cavity	8.6	WNW	Bed 3	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	7.6	SSW	Bed 3	No	No
1 : FR5 - Brick Cavity	10.5	WNW	Nook	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	92	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	36.6	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	4.5	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	31.8	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	6.5	Enclosed	0.0	Tiles
Principal Suite	Timber	14.7	Enclosed	0.0	Carpet
WIR	Timber	6.7	Enclosed	0.0	Carpet
ens.	Timber	3.7	Enclosed	0.0	Tiles
Bath	Timber	6	Enclosed	0.0	Tiles
Bed 2	Timber	13.8	Enclosed	0.0	Carpet

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: UDJEJ2PJWK

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4

## Building Features

Bed 3	Timber	11.1	Enclosed	0.0	Carpet
Nook	Timber	15	Enclosed	0.0	Carpet

### Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	3.5	No
Principal Suite	Plasterboard	3.5	No
WIR	Plasterboard	3.5	No
ens.	Plasterboard	3.5	No
Bath	Plasterboard	3.5	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Nook	Plasterboard	3.5	No

### 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
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: UDJEJ2PJWK

Date of Certificate: 7 Aug 2015

★ Star rating: 8.4

## Additional information

## Explanatory notes

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For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: TIF9NT5JJB

Date of Certificate: 7 Aug 2015

★ Star rating: 6.9

## Assessor details

Accreditation number: 20311  
Name: V.Vicaretti  
Organisation: akv pty ltd  
Email: info@akvptyltd.com.au  
Phone: 0414 426 546  
Declaration of interest: No potential conflicts of interest to declare  
Software: FirstRate5: 5.2.1 (3.13)  
AAO: ABSA

## Overview

### Dwelling details

Address: Lot 193 The Promenade  
Suburb: Penrith  
State: NSW Postcode: 2750  
Type: New Home NCC Class: Class 1a  
Lot/DP number: - NatHERS climate zone: 28  
Exposure: suburban

### Key construction and insulation materials

(see following pages for details)

Construction: Wall: Brick Veneer  
Roof: Concrete Tile  
Floor: Concrete  
Insulation: Wall: R1.5 Bulk Insulation  
Roof: R2.5 Bulk Insulation  
Floor: None  
Glazing: Aluminium Clear

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

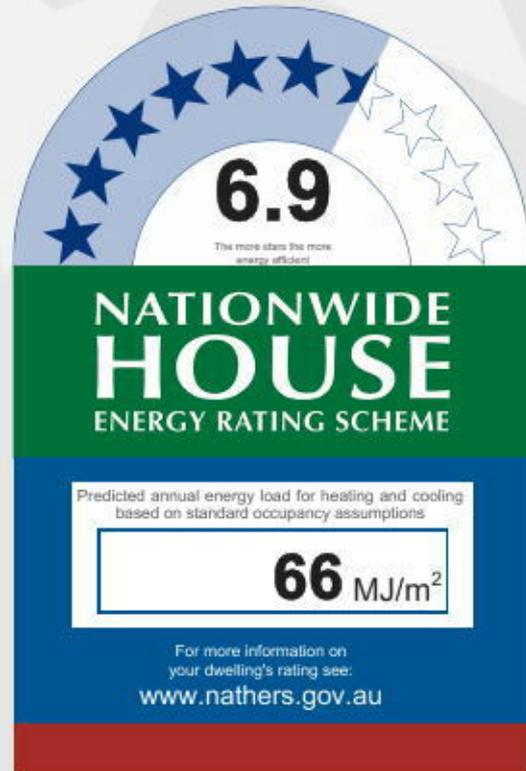
Conditioned: 180.3  
Unconditioned: 1.9  
Garage: -  
TOTAL: 182.2

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

Heating: 35.6  
Cooling: 30.4  
TOTAL: 66

### Plan documents

Plan ref/date: -  
Prepared by: -



### Ceiling penetrations

(see following pages for details)

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

Principal downlight type: No downlights modelled

\*\*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=TIF9NT5JJB>

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: TIF9NT5JJB

Date of Certificate: 7 Aug 2015

★ Star rating: 6.9



## Building Features

### Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

### Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-001-01 A	Opening 56	2400	2400	N	Living	No
ALM-002-01 A	Opening 58	2400	2700	S	Kitchen/Living	No
ALM-001-01 A	Opening 57	1800	1500	S	Kitchen/Living	No
ALM-002-01 A	Opening 65	2100	2100	N	Principal Suite	No
ALM-002-01 A	Opening 67	1200	610	N	Principal Suite	No
ALM-002-01 A	Opening 66	1800	610	N	Nook	No
ALM-002-01 A	Opening 68	1200	1500	S	Bed 2	No
ALM-002-01 A	Opening 69	1200	1810	S	Bed 3	No
ALM-002-01 A	Opening 70	2100	2410	N	Enterainment	No
ALM-002-01 A	Opening 71	1800	610	N	Enterainment	No

### 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 <sup>2</sup> )	Orientation	Zone name	Outdoor shade	Indoor shade/diffuser
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### External wall type

Type	Insulation	Wall wrap
1 : 014 - Brick Veneer R 1 . 5	Glass fibre batt: R1.5 (R1.5)	Yes
2 : FR5 - Brick Cavity		No
3 : 014 - Weatherboard Foil R 2.0 Batt	Glass fibre batt: R2.0 (R2.0)	Yes

### External wall schedule

Wall type	Area (m <sup>2</sup> )	Orientation	Zone name	Fixed shade	Eaves
1 : 014 - Brick Veneer R 1 . 5	8.7	ESE	Living	No	No
1 : 014 - Brick Veneer R 1 . 5	11.6	NNE	Living	Yes	Yes

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: TIF9NT5JJB

Date of Certificate: 7 Aug 2015

★ Star rating: 6.9

## Building Features

1 : 014 - Brick Veneer R 1 . 5	3.6	NNE	Living	Yes	Yes
2 : FR5 - Brick Cavity	8.7	WNW	Living	No	No
2 : FR5 - Brick Cavity	4.3	WNW	WC	No	No
1 : 014 - Brick Veneer R 1 . 5	4.7	ESE	Ldry	No	No
2 : FR5 - Brick Cavity	20.4	WNW	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	9.7	SSW	Kitchen/Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	4.7	ESE	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	5.4	SSW	Kitchen/Living	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	15.3	ESE	Kitchen/Living	No	No
1 : 014 - Brick Veneer R 1 . 5	10.2	ESE	Principal Suite	No	No
1 : 014 - Brick Veneer R 1 . 5	11.6	NNE	Principal Suite	Yes	Yes
1 : 014 - Brick Veneer R 1 . 5	1	NNE	Principal Suite	No	No
1 : 014 - Brick Veneer R 1 . 5	3.4	ESE	Ens.	No	No
1 : 014 - Brick Veneer R 1 . 5	6.3	ESE	Bath	No	No
1 : 014 - Brick Veneer R 1 . 5	2.4	NNE	Nook	No	No
2 : FR5 - Brick Cavity	27	WNW	Nook	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	5.4	SSW	Bed 2	Yes	No
1 : 014 - Brick Veneer R 1 . 5	8.4	ESE	Bed 2	No	No
2 : FR5 - Brick Cavity	6.6	WNW	Bed 3	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	9.7	SSW	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	4.7	ESE	Bed 3	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	11.4	NNE	Entertainment	Yes	Yes
3 : 014 - Weatherboard Foil R 2.0 Batt	3.7	NNE	Entertainment	No	No
2 : FR5 - Brick Cavity	10.1	WNW	Entertainment	No	No
3 : 014 - Weatherboard Foil R 2.0 Batt	15.1	SSW	Entertainment	Yes	No
3 : 014 - Weatherboard Foil R 2.0 Batt	10.1	ESE	Entertainment	No	No

### Internal wall type

Type	Area (m <sup>2</sup> )	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	119.3	

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Living	CSOG: Slab on Ground	22.8	Enclosed	0.0	Tiles

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: TIF9NT5JJB

Date of Certificate: 7 Aug 2015

★ Star rating: 6.9

## Building Features

WC	CSOG: Slab on Ground	1.9	Enclosed	0.0	Tiles
Ldry	CSOG: Slab on Ground	5.4	Enclosed	0.0	Tiles
Hall	CSOG: Slab on Ground	4.6	Enclosed	0.0	Tiles
Kitchen/Living	CSOG: Slab on Ground	48.2	Enclosed	0.0	Tiles
Principal Suite	Timber	19.3	Enclosed	0.0	Carpet
Principal Suite	Timber	2.9	Enclosed	0.0	Carpet
Ens.	Timber	5.1	Enclosed	0.0	Tiles
Bath	Timber	8	Enclosed	0.0	Tiles
WC	Timber	1.5	Enclosed	0.0	Tiles
Nook	Timber	19	Enclosed	0.0	Carpet
Nook	Timber	3.6	Enclosed	0.0	Carpet
Bed 2	Timber	11.6	Enclosed	0.0	Carpet
Bed 3	Timber	10.6	Enclosed	0.0	Carpet
Entertainment	Timber	26.4	Enclosed	0.0	Carpet

## Ceiling type

Location	Material	Added insulation	Roof space above
Living	Plasterboard	0.0	No
Living	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Ldry	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Hall	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Kitchen/Living	Plasterboard	0.0	No
Principal Suite	Plasterboard	0.0	No
Principal Suite	Plasterboard	0.0	No

# Nationwide House Energy Rating Scheme\* Certificate



Certificate Number: TIF9NT5JJB

Date of Certificate: 7 Aug 2015

★ Star rating: 6.9

## Building Features

Ens.	Plasterboard	3.5	No
Bath	Plasterboard	3.5	No
WC	Plasterboard	3.5	No
Nook	Plasterboard	0.0	No
Nook	Plasterboard	3.5	No
Nook	Plasterboard	0.0	No
Bed 2	Plasterboard	3.5	No
Bed 3	Plasterboard	3.5	No
Entertainment	Plasterboard	3.5	No

### 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
Ceil: Ceiling	1.0	medium
Framed:Flat - Flat Framed (Metal Deck)	1.0	medium

# Nationwide House Energy Rating Scheme\* Certificate

Certificate Number: TIF9NT5JJB

Date of Certificate: 7 Aug 2015

★ Star rating: 6.9



## 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](http://www.nathers.gov.au)

For more information on energy efficient design and insulation visit [www.yourhome.gov.au](http://www.yourhome.gov.au)

# Nationwide House Energy Rating Scheme\* — Class 2 summary



Certificate Number: Y90SFQ8LRV

Date of Certificate: 7 Aug 2015

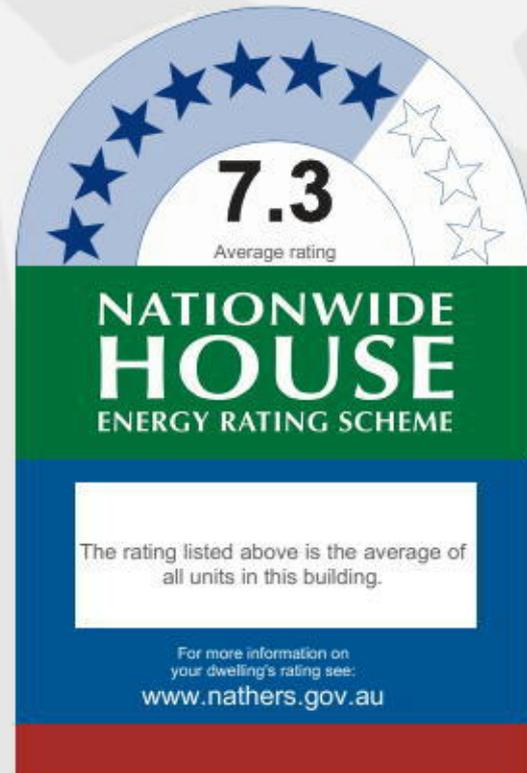
★ Average star rating: 7.3

## Assessor details

Accreditation number: 20311  
 Name: Vittoriano Vicaretti  
 Organisation: akv pty ltd  
 Email: info@akvptyltd.com.au  
 Phone: 0414 426 546  
 Declaration of interest: No potential conflicts of interest to declare  
 Software: 52001  
 AAO: ABSA

## Dwelling details

Address: 178 - 193 The Promenade  
 Suburb: Penrith  
 State: NSW  
 Postcode: 2750



## Summary of all dwellings

## Certification details

Certificate number	Unit number	Annual thermal performance loads (MJ/m2)			Star rating
		Heating load	Cooling load	Total load	
EMXYQ8B5FO		15.5	18.5	34	8.4
5CGLOQ4ANO		17.1	19.1	36.2	8.4
Q2QPQXUNR0		11	27.1	38.1	8.3
F52ULS5OYL		38.8	40.8	79.6	6.4
OCDDIINL26		17.1	19.1	36.2	8.4
LT1P6AWX90		10.8	22.8	33.6	8.5
2N2JJZY8FM		11.3	26.1	37.4	8.3
YKNAT6VZ7G		61.1	73.2	134.3	4.3
TIF9NT5JJB		35.6	30.4	66	6.9
40JS4FPH35		34.1	71.4	105.5	5.2
KVFJ0VDLKF		39.8	41.6	81.4	6.3
IXY5SS511I		53.6	39.4	93	5.7
MWF2X65RYQ		35.5	30.1	65.6	7
VZ1OWQA37Q		16.9	19.4	36.3	8.4
QN6CO81RGG		11	27.1	38.1	8.3
0N0TOUGBDL		14.5	18.7	33.2	8.5

continued

\* 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)

# Nationwide House Energy Rating Scheme\* — Class 2 summary



Certificate Number: Y90SFQ8LRV

Date of Certificate: 7 Aug 2015

★ Average star rating: 7.3

## 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	
UDJEJ2PJWK		16.9	19.4	36.3	8.4
YH383OX3K8		35.5	30.1	65.6	7

This building achieves an average star rating of: 7.3