

# NatHERS Assessment Summary

<b>Project Details</b>	<b>Address:</b> Lot 3008 Lord Sheffield Circuit, Penrith, NSW, 2750 <b>Lot and Plan:</b> 3008 <b>Council:</b> Penrith City Council <b>NCC Climate Zone:</b> 5 <b>Project Description:</b> Unit Building (48 Units) <b>Building Classification:</b> 2
<b>Result</b>	<b>Complies with maximum heating and cooling loads in BASIX</b>
<b>Construction Details and Minimum Requirements</b>	<b>External Walls:</b> Brick veneer <b>Insulation:</b> R1.5 batts
	<b>Internal Walls:</b> Plasterboard <b>Insulation:</b> N/A
	<b>Floor:</b> Suspended slab <b>Insulation:</b> N/A
	<b>Ceiling:</b> Plasterboard <b>Insulation:</b> R3.0 batts to top level ceiling
	<b>Roof:</b> Concrete slab <b>Insulation:</b> N/A
	<b>Glazing:</b> Standard: Low-e glazing (Max. U value 5.4, SHGC between 0.55-0.61) Unit 802: Max. U value 4.3, SHGC between 0.50-0.56 Unit 803: Max. U value 4.8, SHGC between 0.56-0.62
	<b>Ceiling Penetrations:</b> Sealed exhaust fans
	<b>Other:</b> N/A

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



Certificate number: **0004617100**

Certificate Date: **24 Feb 2020**

★ Average Star rating: **6.5**

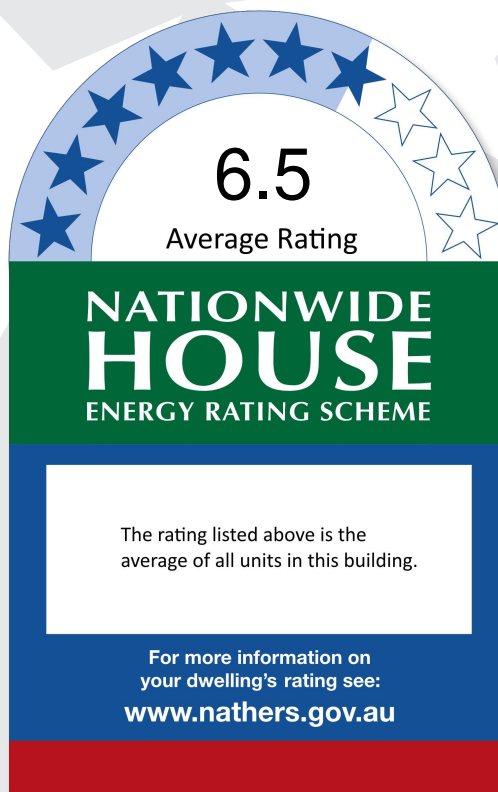
## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Dwelling details

Street: **Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW**  
Postcode: **2750**

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



## Summary of all dwellings

### Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0004616488-01	301	20.2	45.1	65.3	7.1
0004616728-01	302	50.4	40.0	90.4	5.9
0004616694-01	303	49.2	57.2	106.4	5.3
0004616660-01	304	37.4	43.8	81.2	6.3
0004616637-01	305	31.4	33.5	64.9	7.1
0004616603-02	306	17.1	49.6	66.7	6.9
0004616579-01	307	18.1	48.4	66.6	6.9
0004616546-01	308	17.6	62.7	80.3	6.4
0004616512-01	401	24.7	32.1	56.8	7.4
0004616454-02	402	57.3	31.6	89.0	5.9
0004616421-01	403	50.9	51.4	102.3	5.4
0004616397-01	404	40.5	38.9	79.4	6.4
0004616371-01	405	34.7	29.0	63.7	7.2
0004616348-01	406	25.8	54.1	79.9	6.4
0004616314-01	407	20.5	45.4	65.9	7



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

Certificate number: **0004617100**

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## Summary of all dwellings continued

### Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0004616298-02	408	18.0	40.3	58.3	7.4
0004616744-01	501	25.1	31.7	56.9	7.4
0004616702-01	502	57.9	32.0	89.8	5.9
0004616678-01	503	51.6	51.1	102.7	5.4
0004616645-01	504	41.0	38.7	79.7	6.4
0004616611-01	505	35.1	28.7	63.7	7.2
0004616363-01	506	26.3	52.4	78.7	6.4
0004616587-01	507	20.9	45.2	66.2	6.9
0004616561-02	508	18.4	40.2	58.6	7.4
0004616520-01	601	25.4	31.6	57.0	7.4
0004616496-01	602	58.3	31.8	90.1	5.9
0004616462-02	603	52.0	50.7	102.8	5.4
0004616439-02	604	41.4	38.6	80.0	6.4
0004616405-01	605	35.4	28.4	63.9	7.1
0004616330-01	606	26.5	51.9	78.3	6.4
0004616306-01	607	21.3	45.0	66.2	6.9
0004616272-01	608	18.6	39.8	58.5	7.4
0004616736-01	701	25.7	31.5	57.2	7.4
0004616710-01	702	58.7	31.8	90.5	5.9
0004616686-01	703	52.5	50.8	103.2	5.4
0004616652-01	704	41.8	38.4	80.1	6.4
0004616629-01	705	35.8	28.2	64.0	7.1
0004616595-02	706	26.7	51.8	78.5	6.4
0004616553-01	707	21.6	44.5	66.1	6.9
0004616538-01	708	18.9	39.9	58.8	7.4
0004616504-01	801	40.9	36.5	77.4	6.4
0004616470-01	802	56.6	31.3	88.0	5.9
0004616447-02	803	57.6	53.5	111.1	5.1
0004616413-01	804	57.7	41.7	99.4	5.4
0004616389-01	805	52.4	33.1	85.5	6.1
0004616355-01	806	43.0	57.9	100.9	5.4
0004616322-01	807	35.3	49.8	85.2	6.1
0004616280-02	808	32.7	45.3	78.0	6.4

\* 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)

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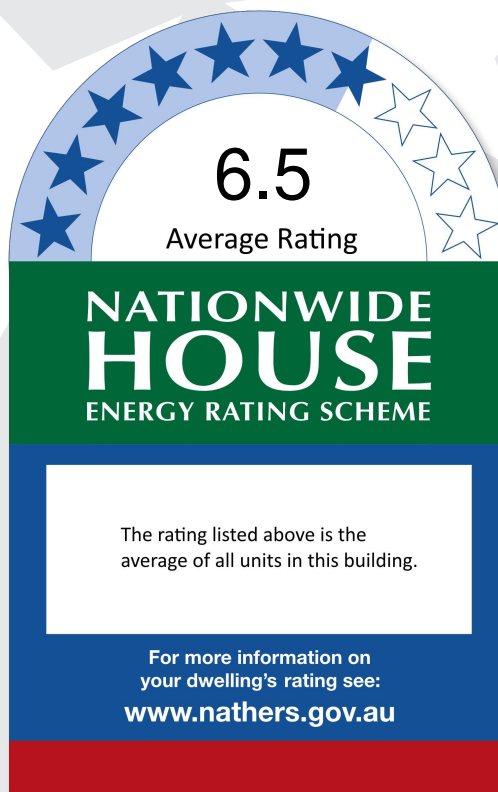
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Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Dwelling details

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616488-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.1



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 301, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

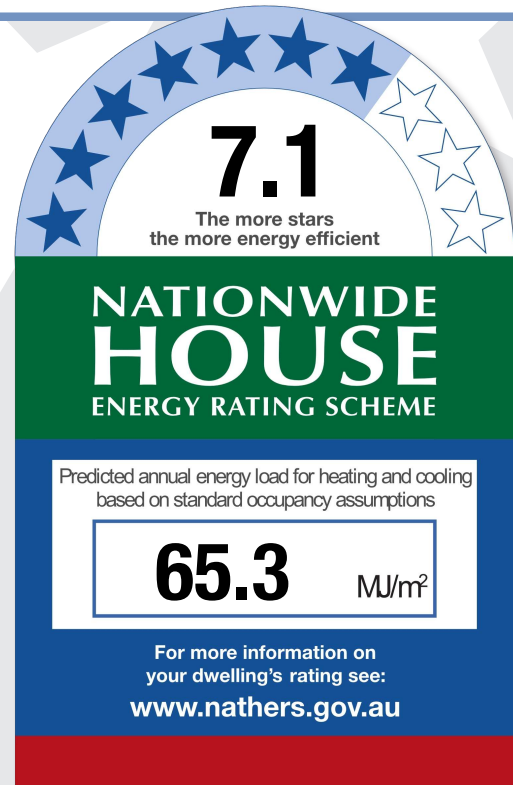
Conditioned: **78.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **83.0**

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

Heating: **20.2**  
Cooling: **45.1**  
TOTAL: **65.3**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

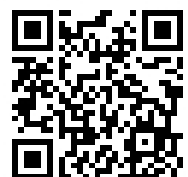
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616488-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.1



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2700	NE	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	900	NW	No Shading
Bedroom 2	ALM-002-03 A	n/a	1800	900	SE	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	NE	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	1500	NE	No Shading
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2800	2790	NE	No	0
Bedroom 1	EW-1	335	2790	E	No	0
Bedroom 1	EW-1	320	2790	E	No	0
Bedroom 1	EW-1	3245	2790	SE	No	0
Bedroom 1	EW-1	1150	2790	NW	No	7050
Bedroom 2	EW-1	2795	2790	SE	No	0
Bedroom 2	EW-1	762	2790	SW	No	56
Bedroom 2	EW-1	610	2790	S	No	25
Kitchen/Living	EW-1	5945	2790	NE	No	1150
Kitchen/Living	EW-1	2600	2790	NW	No	1100
Ens	EW-1	2840	2790	SE	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
	61.0	No insulation	No

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# Nationwide House Energy Rating Scheme\* Certificate

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## Building features continued

IW-1 - Cavity wall, direct fix plasterboard, single gap

IW-2 - Shaft liner party wall with plaster 41.0 Bulk Insulation both sides of shaft liner R1.5 No

## Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	5.0	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	13.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	47.3	None	No Insulation	Cork Tiles or Parquetry 8mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# 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 the report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using the underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance.

The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

### Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

AAOs have specific quality assurance processes in place and continuing professional development requirements to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

### Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

### Contact

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

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

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616728-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Assessor details

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Name: **Conor Horwood**  
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NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

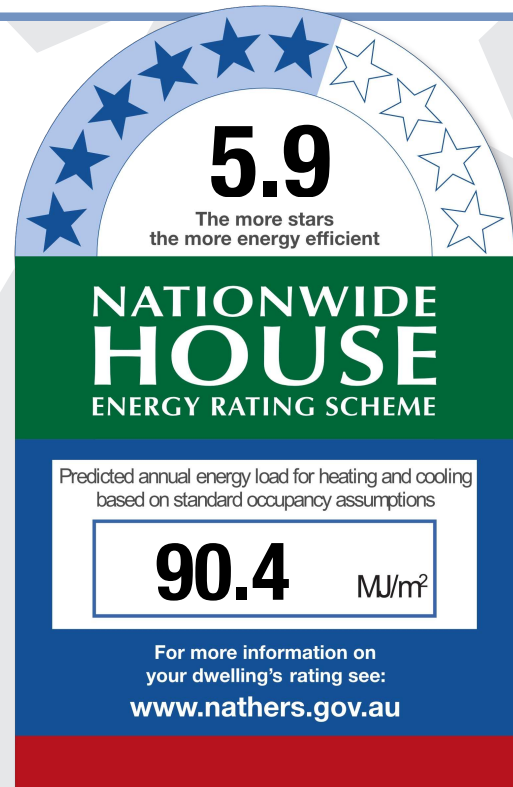
Conditioned: **71.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **76.0**

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

Heating: **50.4**  
Cooling: **40.0**  
TOTAL: **90.4**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

**\*\*NOTE:** This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

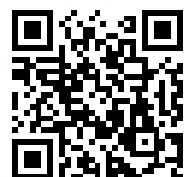
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Certificate Date:

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★ Star rating:

5.9



## Building features

### Window type and performance value

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### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2700	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3700	SW	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	750	SW	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	1500	SW	No Shading
Ens	ALM-002-03 A	n/a	1800	900	SE	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No
EW-2	Brick Veneer	Foil, Anti-glare one side, Reflective other	Yes

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	2995	2790	SW	No	2925
Kitchen/Living	EW-1	3995	2790	SW	No	1175
Kitchen/Living	EW-1	1750	2790	NW	No	4725
Bedroom 1	EW-1	1150	2790	NW	No	8675
Bedroom 1	EW-1	4845	2790	SE	No	0
Bedroom 1	EW-1	707	2790	S	No	0
Bedroom 1	EW-1	2600	2790	SW	No	0
Ens	EW-1	2240	2790	SE	No	0
Bath	EW-1	1242	2790	E	No	0
Bath	EW-1	895	2790	SE	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	61.0	No insulation	No

\* 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\* Certificate

Certificate number: 0004616728-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features continued

IW-2 - Shaft liner party wall with plaster 43.0 Bulk Insulation both sides of shaft liner R1.5 No

## Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.4	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	39.5	None	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.7	None	No Insulation	Ceramic Tiles 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616728-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616694-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.3



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 303, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

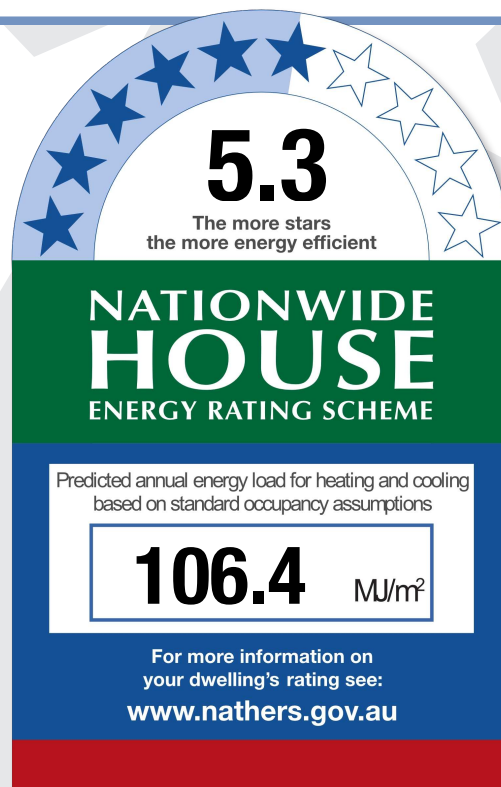
Conditioned: **44.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **48.0**

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

Heating: **49.2**  
Cooling: **57.2**  
TOTAL: **106.4**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

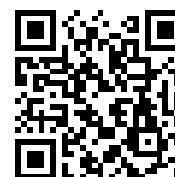
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616694-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.3



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	3300	SW	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	2400	NW	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2995	2790	SW	No	2600
Kitchen/Living	EW-1	2850	2790	SE	No	3025
Kitchen/Living	EW-1	3700	2790	SW	No	0
Kitchen/Living	EW-1	2600	2790	NW	No	4450

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	51.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	25.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	4.2	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below	12.1	None	No Insulation	Carpet+Rubber

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616694-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**5.3**

### Building features continued

	250mm				Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	31.7	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616694-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.3



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616660-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.3



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 304, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

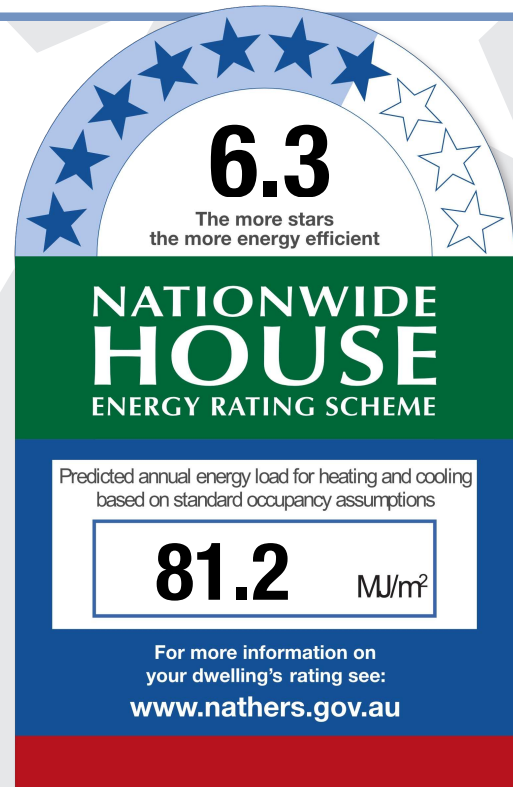
Conditioned: **49.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **53.0**

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

Heating: **37.4**  
Cooling: **43.8**  
TOTAL: **81.2**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616660-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.3



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	1200	W	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	3300	W	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3445	2790	SW	No	1950
Kitchen/Living	EW-1	1882	2790	S	No	2247
Kitchen/Living	EW-1	1956	2790	W	No	0
Kitchen/Living	EW-1	3824	2790	W	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	54.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	26.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	13.2	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below	4.3	None	No Insulation	Ceramic Tiles

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616660-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**6.3**

### Building features continued

	250mm				8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	35.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616660-01

Certificate Date: 24 Feb 2020

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## Additional information

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616637-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.1



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 305, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

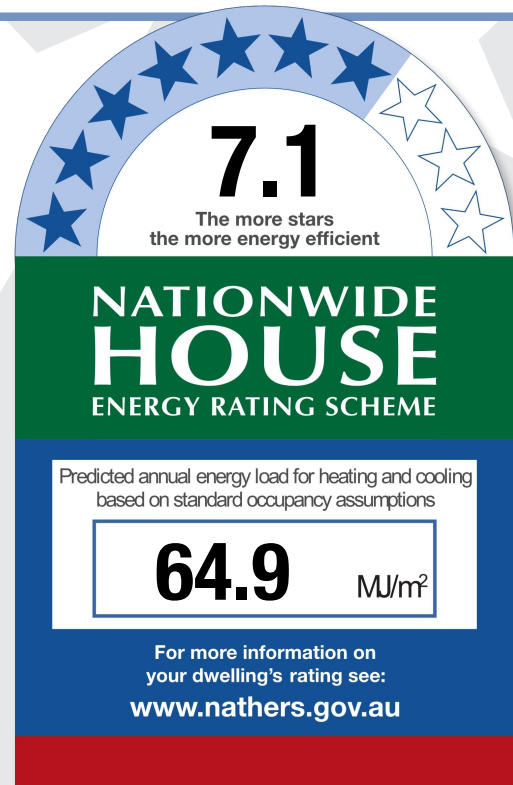
Conditioned: **69.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **74.0**

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

Heating: **31.4**  
Cooling: **33.5**  
TOTAL: **64.9**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

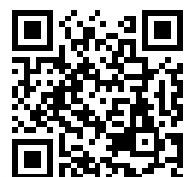
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616637-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.1



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2400	W	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	2000	W	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	3000	W	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3010	2790	W	No	3121
Bedroom 1	EW-1	3005	2790	W	No	0
Kitchen/Living	EW-1	4031	2790	W	No	0
Kitchen/Living	EW-1	3157	2790	N	No	4887

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	67.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	55.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616637-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**7.1**

### Building features continued

Bedroom 2	Concrete Slab, Unit Below 250mm	10.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.3	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	37.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616637-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.1



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616603-02

Certificate Date: 24 Feb 2020

★ Star rating: 6.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 306, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

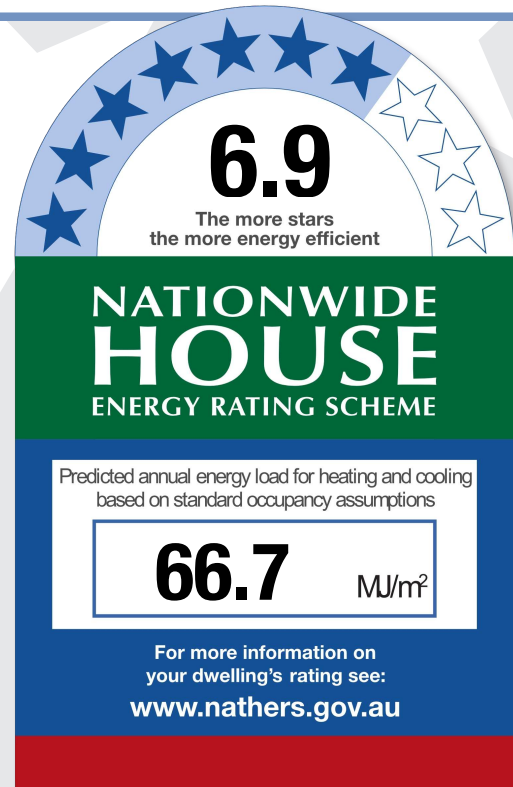
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **17.1**  
Cooling: **49.6**  
TOTAL: **66.7**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

**\*\*NOTE:** This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

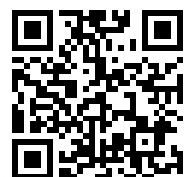
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616603-02

Certificate Date:

24 Feb 2020

★ Star rating:

6.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	900	N	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	No Shading
Bedroom 2	ALM-002-03 A	n/a	2700	2400	W	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	W	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3081	2790	W	No	35
Bedroom 1	EW-1	5447	2790	N	No	35
Bedroom 1	EW-1	1092	2790	S	No	8596
Ens	EW-1	2220	2790	N	No	35
Bedroom 2	EW-1	3005	2790	W	No	2975
Bath	EW-1	917	2790	N	No	0
Bath	EW-1	743	2790	E	No	0
Bath	EW-1	618	2790	NE	No	0
Kitchen/Living	EW-1	1835	2790	S	No	4405
Kitchen/Living	EW-1	4102	2790	W	No	1134

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No
IW-2 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616603-02

Certificate Date:

24 Feb 2020

★ Star rating:

6.9



## Building features continued

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2	Concrete Slab, Unit Below 250mm	10.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.5	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	40.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616603-02

Certificate Date: 24 Feb 2020

★ Star rating: 6.9



## Additional information

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616579-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 307, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

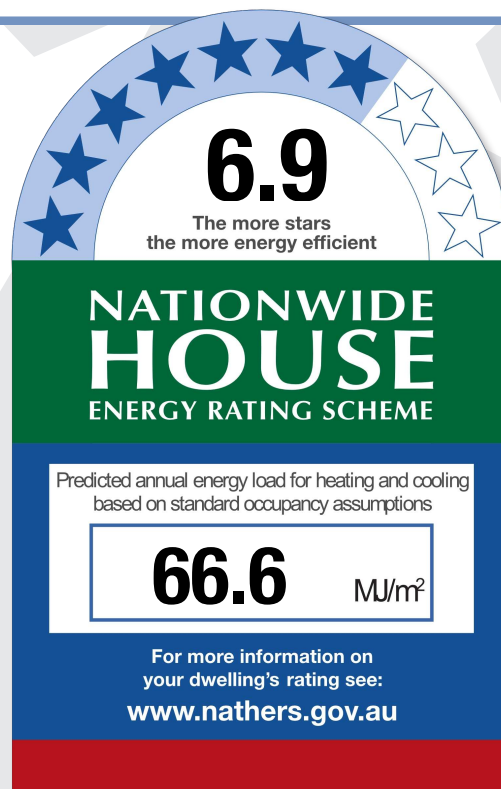
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **18.1**  
Cooling: **48.4**  
TOTAL: **66.6**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
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Certificate number: 0004616579-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	2400	E	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3900	E	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3043	2790	E	No	3173
Bedroom 1	EW-1	1129	2790	S	No	11336
Bedroom 1	EW-1	2296	2790	N	No	0
Bedroom 1	EW-1	3250	2790	N	No	25
Bedroom 1	EW-1	2512	2790	E	No	71
Ens	EW-1	2257	2790	N	No	0
Bath	EW-1	1315	2790	NW	No	25
Bath	EW-1	846	2790	N	No	35
Kitchen/Living	EW-1	4111	2790	E	No	1207
Kitchen/Living	EW-1	1980	2790	S	No	6947

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616579-01

Certificate Date:

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★ Star rating:

6.9



## Building features continued

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.5	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.8	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.6	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	41.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		



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Certificate number: 0004616579-01

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616546-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 308, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

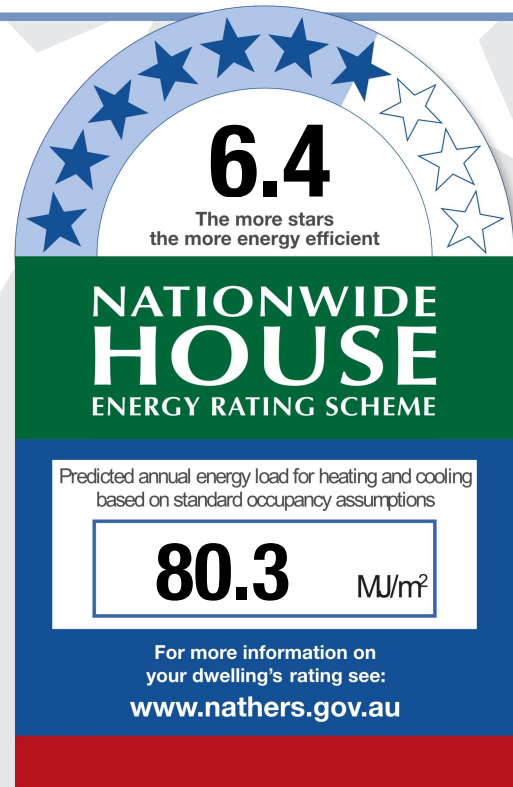
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **17.6**  
Cooling: **62.7**  
TOTAL: **80.3**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

**\*\*NOTE:** This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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





# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616546-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	1800	E	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	NE	No Shading
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	3900	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	1846	2790	E	No	90
Bedroom 1	EW-1	912	2790	NE	No	25
Bedroom 1	EW-1	600	2790	NE	No	50
Bedroom 2	EW-1	3073	2790	E	No	3078
Kitchen/Living	EW-1	4172	2790	E	No	106
Kitchen/Living	EW-1	3015	2790	N	No	5508

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	71.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	57.0	No insulation	No

## Floors

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616546-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**6.4**

## Building features continued

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.5	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	5.1	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	38.9	None	No Insulation	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616546-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616512-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 401, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

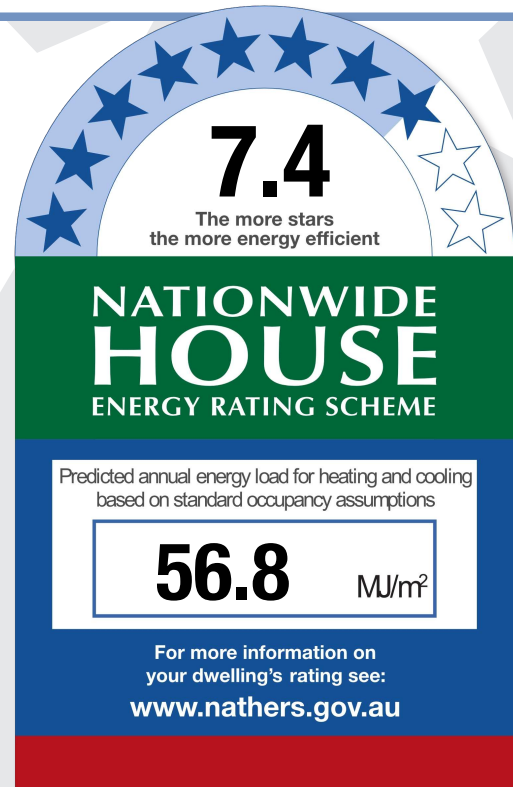
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **24.7**  
Cooling: **32.1**  
TOTAL: **56.8**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
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Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616512-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	900	NE	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	2700	1800	NW	No Shading
Bedroom 2	ALM-002-03 A	n/a	1800	900	SE	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	NE	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	1500	NE	No Shading
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2800	2790	NE	No	0
Bedroom 1	EW-1	335	2790	E	No	0
Bedroom 1	EW-1	320	2790	E	No	0
Bedroom 1	EW-1	3245	2790	SE	No	0
Bedroom 1	EW-1	1850	2790	NW	No	7050
Bedroom 2	EW-1	2795	2790	SE	No	0
Bedroom 2	EW-1	762	2790	SW	No	40
Bedroom 2	EW-1	610	2790	S	No	18
Kitchen/Living	EW-1	5945	2790	NE	No	1850
Kitchen/Living	EW-1	1900	2790	NW	No	1113
Ens	EW-1	2840	2790	SE	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
	59.0	No insulation	No

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616512-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features continued

IW-1 - Cavity wall, direct fix plasterboard, single gap

IW-2 - Shaft liner party wall with plaster 41.0 Bulk Insulation both sides of shaft liner R1.5 No

## Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	5.0	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	13.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	43.1	None	No Insulation	Cork Tiles or Parquetry 8mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616512-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616454-02

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 402, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

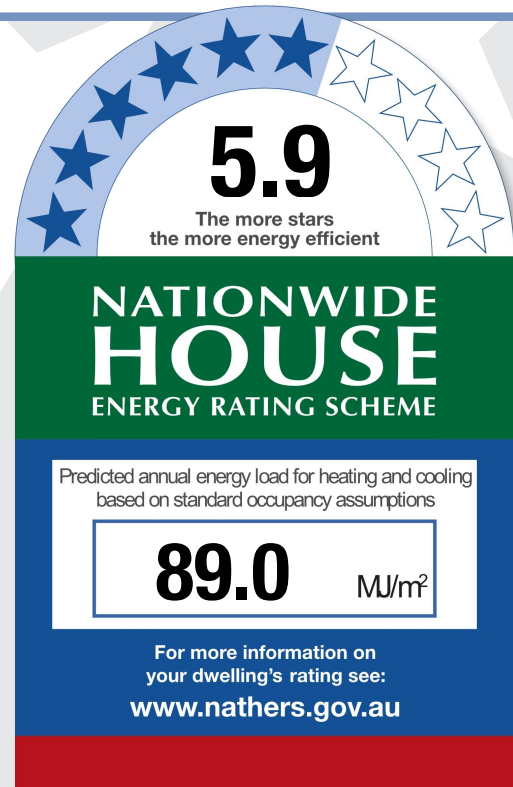
Conditioned: **71.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **76.0**

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

Heating: **57.3**  
Cooling: **31.6**  
TOTAL: **89.0**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

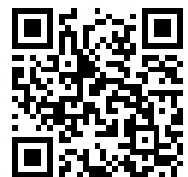
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616454-02

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2700	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3700	SW	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	2350	SW	Awning
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No
EW-2	Brick Veneer	Foil, Anti-glare one side, Reflective other	Yes

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	2995	2790	SW	No	2925
Kitchen/Living	EW-1	3995	2790	SW	No	1175
Kitchen/Living	EW-1	1750	2790	NW	No	4725
Bedroom 1	EW-1	1150	2790	NW	No	8675
Bedroom 1	EW-1	4845	2790	SE	No	0
Bedroom 1	EW-1	707	2790	S	No	0
Bedroom 1	EW-1	2600	2790	SW	No	0
Ens	EW-1	2240	2790	SE	No	0
Bath	EW-1	1242	2790	E	No	0
Bath	EW-1	895	2790	SE	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	61.0	No insulation	No
IW-2 - Shaft liner party wall with	43.0	Bulk Insulation both sides of shaft liner R1.5	No

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616454-02

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features continued

plaster

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.4	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	39.5	None	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.7	None	No Insulation	Ceramic Tiles 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616454-02

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Additional information

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616421-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 403, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

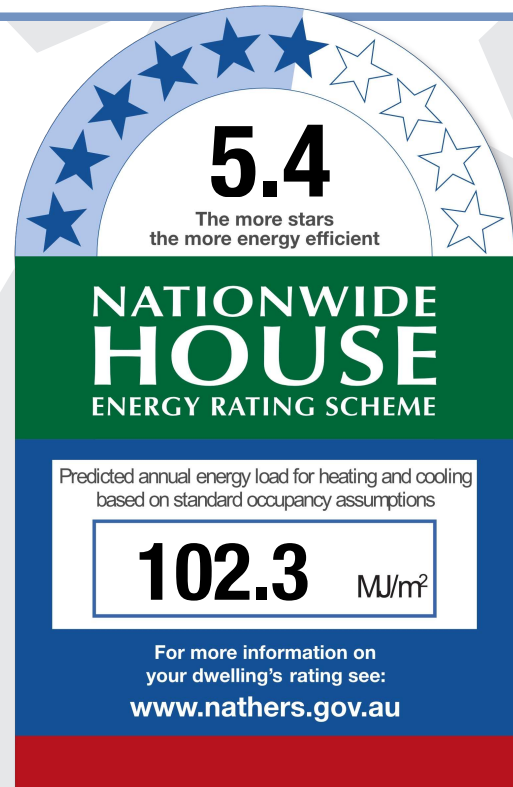
Conditioned: **44.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **48.0**

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

Heating: **50.9**  
Cooling: **51.4**  
TOTAL: **102.3**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616421-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	2100	SW	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	900	SW	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	2400	NW	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2995	2790	SW	No	2600
Kitchen/Living	EW-1	2850	2790	SE	No	3025
Kitchen/Living	EW-1	3700	2790	SW	No	0
Kitchen/Living	EW-1	2600	2790	NW	No	4450

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	51.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	25.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	4.2	None	No Insulation	Ceramic Tiles 8mm

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616421-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**5.4**

### Building features continued

Bedroom 1	Concrete Slab, Unit Below 250mm	12.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	31.7	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616421-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616397-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 404, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

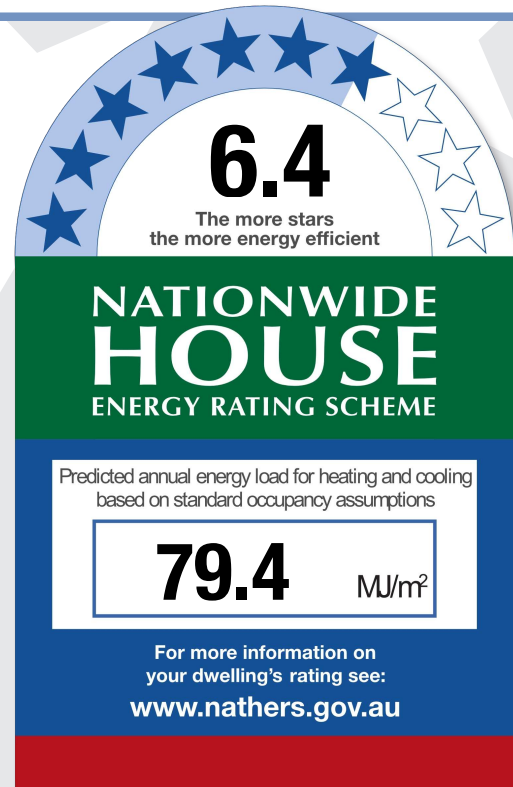
Conditioned: **49.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **53.0**

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

Heating: **40.5**  
Cooling: **38.9**  
TOTAL: **79.4**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616397-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	1200	W	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	3300	W	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3445	2790	SW	No	1950
Kitchen/Living	EW-1	1882	2790	S	No	2247
Kitchen/Living	EW-1	1956	2790	W	No	0
Kitchen/Living	EW-1	3824	2790	W	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	54.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	26.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	13.2	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below	4.3	None	No Insulation	Ceramic Tiles

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616397-01

Certificate Date:

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★ Star rating:

6.4



### Building features continued

	250mm				8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	35.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		



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## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616371-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.2



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 405, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-001-03 A Aluminium A SG High**  
**Solar Gain Low-E**

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

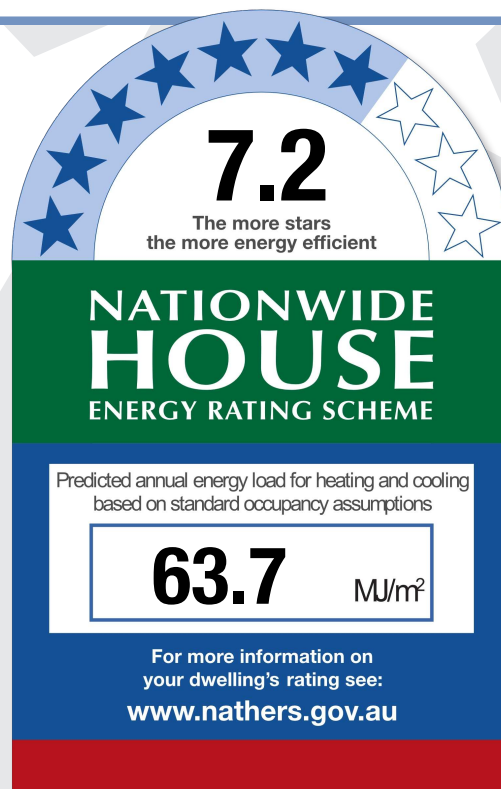
Conditioned: **69.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **74.0**

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

Heating: **34.7**  
Cooling: **29.0**  
TOTAL: **63.7**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
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Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616371-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.2



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-03 A	ALM-001-03 A Aluminium A SG High Solar Gain Low-E	5.4	0.49

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-001-03 A	n/a	2700	2400	W	No Shading
Bedroom 1	ALM-001-03 A	n/a	1800	2000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	1800	3000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3010	2790	W	No	3121
Bedroom 1	EW-1	3005	2790	W	No	0
Kitchen/Living	EW-1	4031	2790	W	No	0
Kitchen/Living	EW-1	3157	2790	N	No	4887

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	67.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	55.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

## Nationwide House Energy Rating Scheme\* Certificate

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**7.2**

### Building features continued

Bedroom 2	Concrete Slab, Unit Below 250mm	10.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.3	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	37.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616348-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 406, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

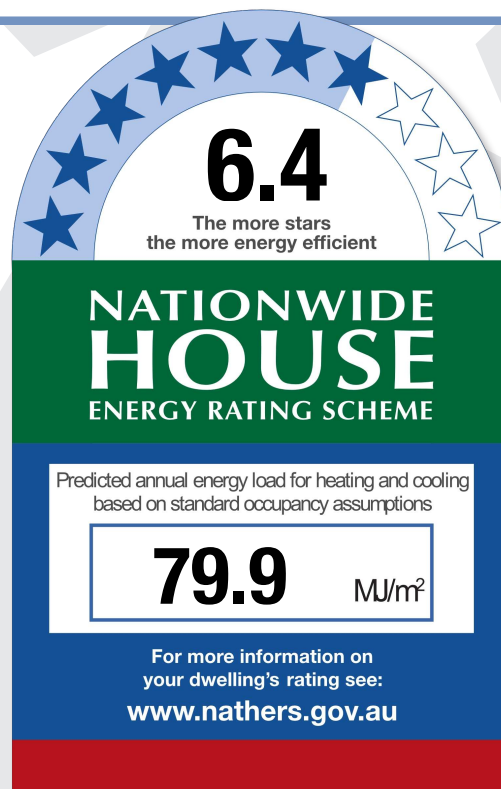
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **25.8**  
Cooling: **54.1**  
TOTAL: **79.9**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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





# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616348-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	2100	W	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	N	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	W	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	W	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3081	2790	W	No	35
Bedroom 1	EW-1	5447	2790	N	No	35
Bedroom 1	EW-1	1092	2790	S	No	8596
Ens	EW-1	2220	2790	N	No	35
Bedroom 2	EW-1	3005	2790	W	No	2975
Bath	EW-1	917	2790	N	No	0
Bath	EW-1	743	2790	E	No	0
Bath	EW-1	618	2790	NE	No	0
Kitchen/Living	EW-1	1835	2790	S	No	4405
Kitchen/Living	EW-1	4102	2790	W	No	1134

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No
IW-2 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616348-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features continued

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2	Concrete Slab, Unit Below 250mm	10.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.5	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	40.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616348-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## 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.

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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: 0004616314-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.0



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 407, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

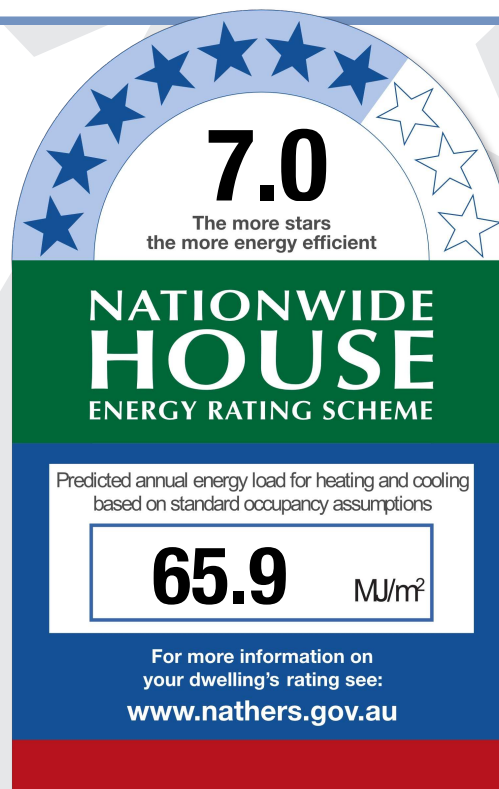
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **20.5**  
Cooling: **45.4**  
TOTAL: **65.9**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616314-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.0



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	2400	E	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3900	E	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3043	2790	E	No	3173
Bedroom 1	EW-1	1129	2790	S	No	11336
Bedroom 1	EW-1	2296	2790	N	No	0
Bedroom 1	EW-1	3250	2790	N	No	25
Bedroom 1	EW-1	2512	2790	E	No	71
Ens	EW-1	2257	2790	N	No	0
Bath	EW-1	1315	2790	NW	No	25
Bath	EW-1	846	2790	N	No	35
Kitchen/Living	EW-1	4111	2790	E	No	1207
Kitchen/Living	EW-1	1980	2790	S	No	6947

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616314-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.0



## Building features continued

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.5	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.8	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.6	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	41.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616314-01

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★ Star rating: 7.0



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616298-02

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 408, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

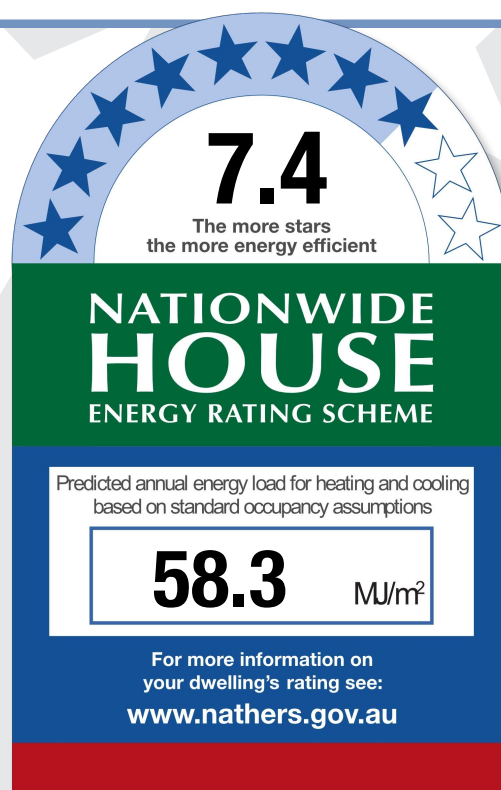
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **18.0**  
Cooling: **40.3**  
TOTAL: **58.3**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616298-02

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	850	E	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	1550	E	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	3000	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	950	2790	E	No	71
Bedroom 1	EW-1	1773	2790	E	No	56
Bedroom 1	EW-1	600	2790	NE	No	25
Bedroom 2	EW-1	3073	2790	E	No	3042
Kitchen/Living	EW-1	4172	2790	E	No	35
Kitchen/Living	EW-1	3015	2790	N	No	5508

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	71.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	57.0	No insulation	No

## Floors

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616298-02

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features continued

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	5.1	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	38.9	None	No Insulation	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616298-02

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## 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

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616744-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 501, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

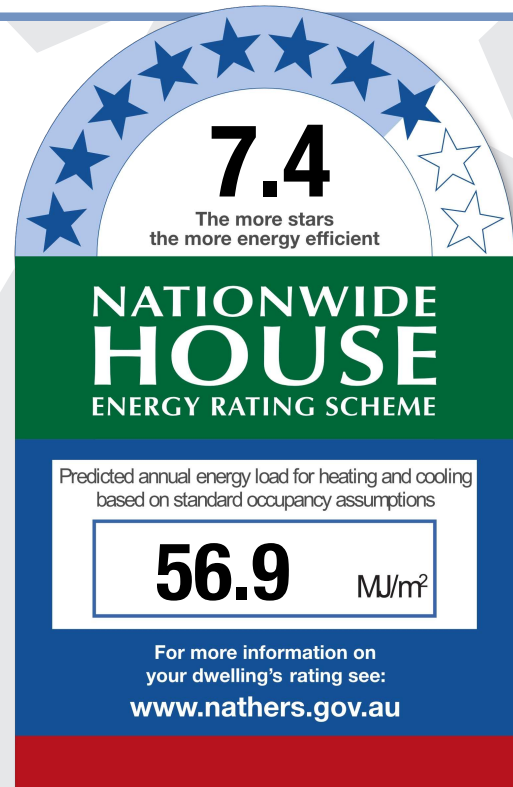
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **25.1**  
Cooling: **31.7**  
TOTAL: **56.9**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616744-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	900	NE	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	2700	1800	NW	No Shading
Bedroom 2	ALM-002-03 A	n/a	1800	900	SE	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	NE	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	1500	NE	No Shading
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2800	2790	NE	No	0
Bedroom 1	EW-1	335	2790	E	No	0
Bedroom 1	EW-1	320	2790	E	No	0
Bedroom 1	EW-1	3245	2790	SE	No	0
Bedroom 1	EW-1	1850	2790	NW	No	7050
Bedroom 2	EW-1	2795	2790	SE	No	0
Bedroom 2	EW-1	762	2790	SW	No	56
Bedroom 2	EW-1	610	2790	S	No	25
Kitchen/Living	EW-1	5945	2790	NE	No	1850
Kitchen/Living	EW-1	1900	2790	NW	No	1125
Ens	EW-1	2840	2790	SE	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
	59.0	No insulation	No

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616744-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features continued

IW-1 - Cavity wall, direct fix plasterboard, single gap

IW-2 - Shaft liner party wall with plaster 41.0 Bulk Insulation both sides of shaft liner R1.5 No

## Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	5.0	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	13.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	43.1	None	No Insulation	Cork Tiles or Parquetry 8mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616744-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616702-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 502, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

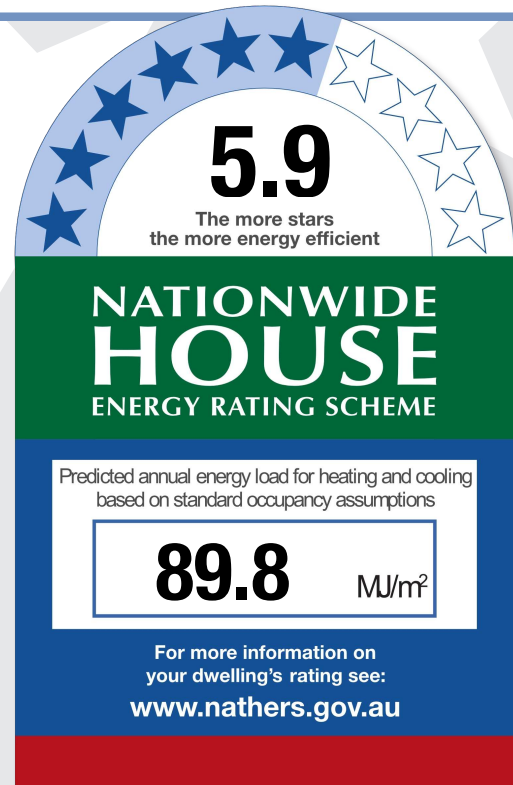
Conditioned: **71.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **76.0**

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

Heating: **57.9**  
Cooling: **32.0**  
TOTAL: **89.8**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

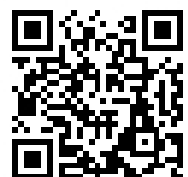
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616702-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2700	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3700	SW	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	2350	SW	Awning
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No
EW-2	Brick Veneer	Foil, Anti-glare one side, Reflective other	Yes

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	2995	2790	SW	No	2925
Kitchen/Living	EW-1	3995	2790	SW	No	1175
Kitchen/Living	EW-1	1750	2790	NW	No	4725
Bedroom 1	EW-1	1150	2790	NW	No	8675
Bedroom 1	EW-1	4845	2790	SE	No	0
Bedroom 1	EW-1	707	2790	S	No	0
Bedroom 1	EW-1	2600	2790	SW	No	0
Ens	EW-1	2240	2790	SE	No	0
Bath	EW-1	1242	2790	E	No	0
Bath	EW-1	895	2790	SE	No	0

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	61.0	No insulation	No
IW-2 - Shaft liner party wall with	43.0	Bulk Insulation both sides of shaft liner R1.5	No

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616702-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features continued

plaster

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.4	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	39.5	None	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.7	None	No Insulation	Ceramic Tiles 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616702-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616678-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 503, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

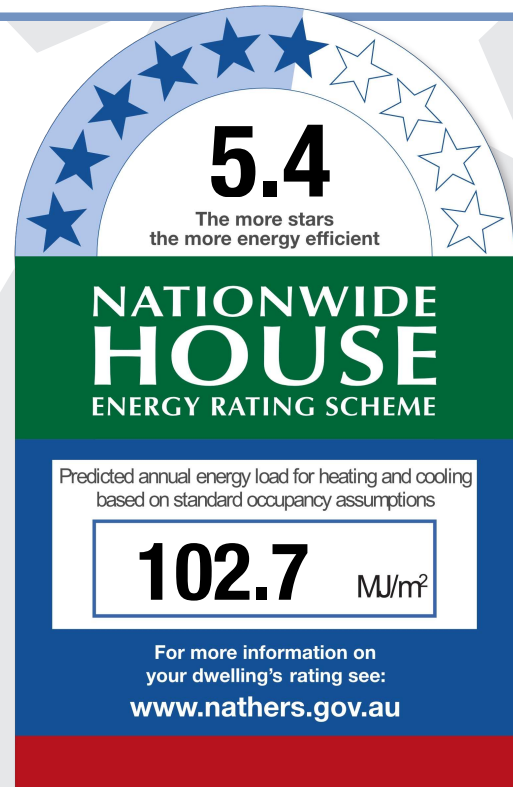
Conditioned: **44.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **48.0**

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

Heating: **51.6**  
Cooling: **51.1**  
TOTAL: **102.7**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

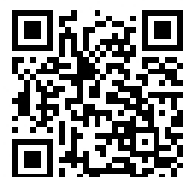
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616678-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	2100	SW	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	900	SW	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	2400	NW	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2995	2790	SW	No	2600
Kitchen/Living	EW-1	2850	2790	SE	No	3025
Kitchen/Living	EW-1	3700	2790	SW	No	0
Kitchen/Living	EW-1	2600	2790	NW	No	4450

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	51.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	25.0	No insulation	No

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	4.2	None	No Insulation	Ceramic Tiles 8mm

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616678-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**5.4**

### Building features continued

Bedroom 1	Concrete Slab, Unit Below 250mm	12.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	31.7	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616678-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616645-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 504, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

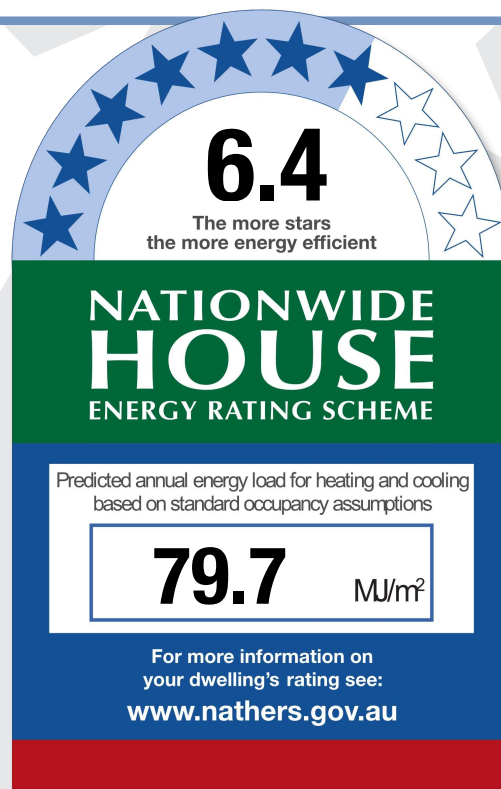
Conditioned: **49.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **53.0**

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

Heating: **41.0**  
Cooling: **38.7**  
TOTAL: **79.7**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

**\*\*NOTE:** This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

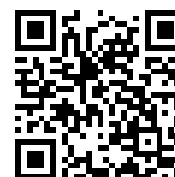
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616645-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	1200	W	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	3300	W	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3445	2790	SW	No	1950
Kitchen/Living	EW-1	1882	2790	S	No	2247
Kitchen/Living	EW-1	1956	2790	W	No	0
Kitchen/Living	EW-1	3824	2790	W	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	54.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	26.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	13.2	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below	4.3	None	No Insulation	Ceramic Tiles



## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616645-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



### Building features continued

	250mm				8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	35.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616645-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616611-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.2



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 505, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-001-03 A Aluminium A SG High**  
**Solar Gain Low-E**

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

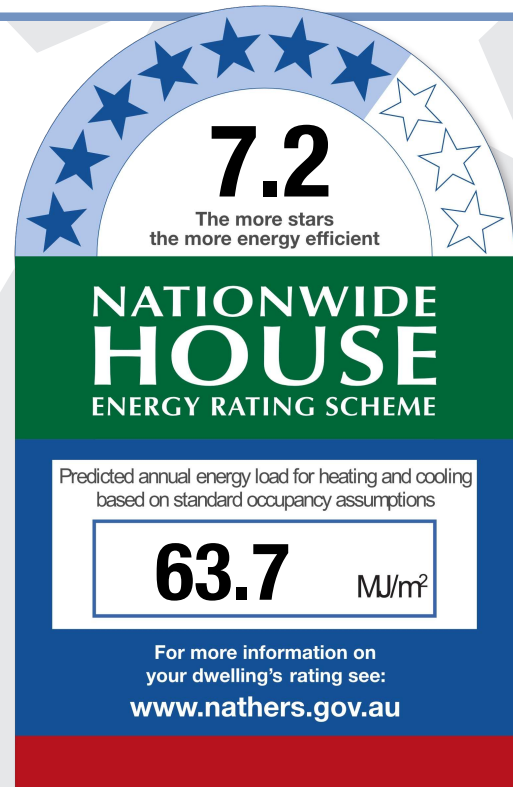
Conditioned: **69.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **74.0**

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

Heating: **35.1**  
Cooling: **28.7**  
TOTAL: **63.7**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

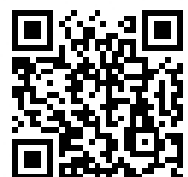
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616611-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.2



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-03 A	ALM-001-03 A Aluminium A SG High Solar Gain Low-E	5.4	0.49

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-001-03 A	n/a	2700	2400	W	No Shading
Bedroom 1	ALM-001-03 A	n/a	1800	2000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	1800	3000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3010	2790	W	No	3121
Bedroom 1	EW-1	3005	2790	W	No	0
Kitchen/Living	EW-1	4031	2790	W	No	0
Kitchen/Living	EW-1	3157	2790	N	No	4887

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	67.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	55.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616611-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**7.2**

## Building features continued

Bedroom 2	Concrete Slab, Unit Below 250mm	10.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.3	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	37.4	None	No Insulation	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616611-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.2



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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616363-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 506, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

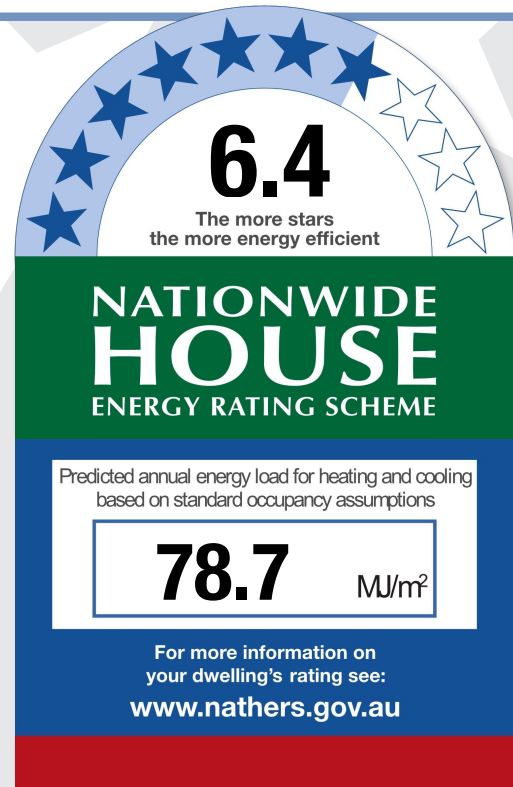
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **26.3**  
Cooling: **52.4**  
TOTAL: **78.7**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

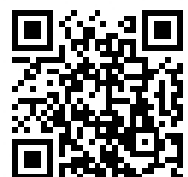
Note on allowable window values:  
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Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	2100	W	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	N	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	W	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	W	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3081	2790	W	No	35
Bedroom 1	EW-1	5447	2790	N	No	35
Bedroom 1	EW-1	1092	2790	S	No	8596
Ens	EW-1	2220	2790	N	No	35
Bedroom 2	EW-1	3005	2790	W	No	2975
Bath	EW-1	917	2790	N	No	0
Bath	EW-1	743	2790	E	No	0
Bath	EW-1	618	2790	NE	No	0
Kitchen/Living	EW-1	1835	2790	S	No	4405
Kitchen/Living	EW-1	4102	2790	W	No	1134

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No
IW-2 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616363-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features continued

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2	Concrete Slab, Unit Below 250mm	10.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.5	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	40.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616363-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616587-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 507, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

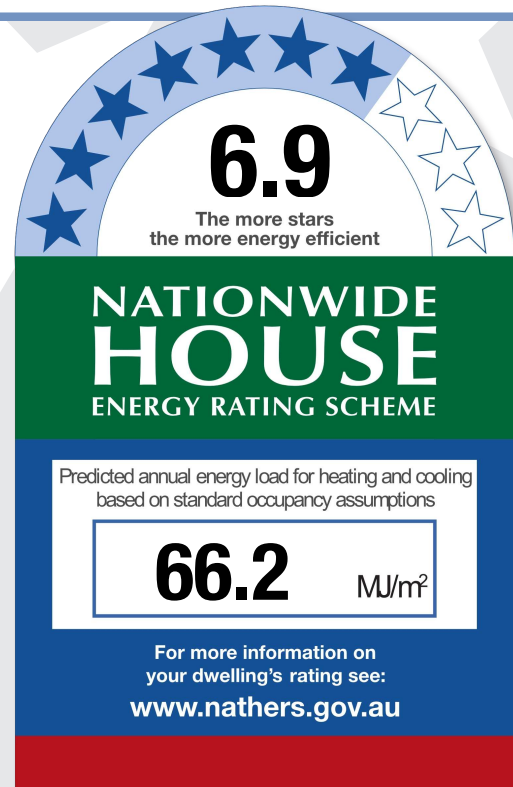
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **20.9**  
Cooling: **45.2**  
TOTAL: **66.2**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616587-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	2400	E	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3900	E	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3043	2790	E	No	3173
Bedroom 1	EW-1	1129	2790	S	No	11336
Bedroom 1	EW-1	2296	2790	N	No	0
Bedroom 1	EW-1	3250	2790	N	No	25
Bedroom 1	EW-1	2512	2790	E	No	71
Ens	EW-1	2257	2790	N	No	0
Bath	EW-1	1315	2790	NW	No	25
Bath	EW-1	846	2790	N	No	35
Kitchen/Living	EW-1	4111	2790	E	No	1207
Kitchen/Living	EW-1	1980	2790	S	No	6947

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616587-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.9



## Building features continued

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.5	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.8	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.6	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	41.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616587-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.9



## Additional information

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616561-02

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 508, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

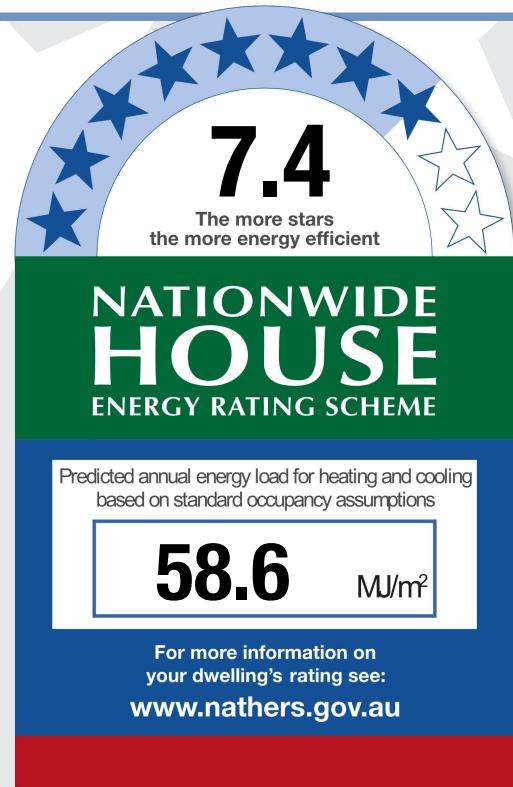
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **18.4**  
Cooling: **40.2**  
TOTAL: **58.6**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

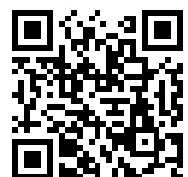
Note on allowable window values:  
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616561-02

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	850	E	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	1550	E	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	3000	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	950	2790	E	No	71
Bedroom 1	EW-1	1773	2790	E	No	56
Bedroom 1	EW-1	600	2790	NE	No	25
Bedroom 2	EW-1	3073	2790	E	No	3042
Kitchen/Living	EW-1	4172	2790	E	No	35
Kitchen/Living	EW-1	3015	2790	N	No	5508

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	71.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	57.0	No insulation	No

## Floors

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616561-02**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**7.4**

## Building features continued

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	5.1	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	38.9	None	No Insulation	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

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Certificate number: 0004616561-02

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616520-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
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## Overview

### Dwelling details

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Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

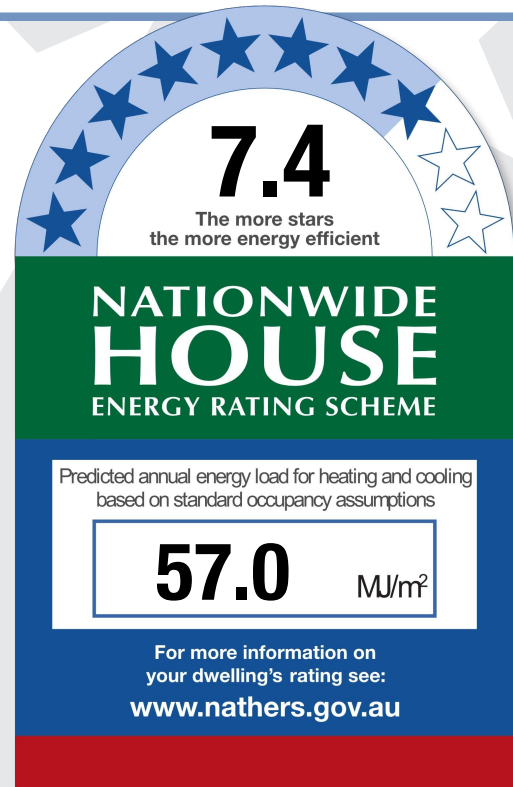
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **25.4**  
Cooling: **31.6**  
TOTAL: **57.0**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

**\*\*NOTE:** This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

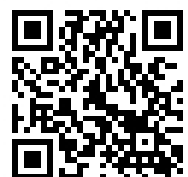
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616520-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	900	NE	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	2700	1800	NW	No Shading
Bedroom 2	ALM-002-03 A	n/a	1800	900	SE	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	NE	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	1500	NE	No Shading
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2800	2790	NE	No	0
Bedroom 1	EW-1	335	2790	E	No	0
Bedroom 1	EW-1	320	2790	E	No	0
Bedroom 1	EW-1	3245	2790	SE	No	0
Bedroom 1	EW-1	1850	2790	NW	No	7050
Bedroom 2	EW-1	2795	2790	SE	No	0
Bedroom 2	EW-1	762	2790	SW	No	56
Bedroom 2	EW-1	610	2790	S	No	25
Kitchen/Living	EW-1	5945	2790	NE	No	1850
Kitchen/Living	EW-1	1900	2790	NW	No	1125
Ens	EW-1	2840	2790	SE	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
	59.0	No insulation	No

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616520-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features continued

IW-1 - Cavity wall, direct fix plasterboard, single gap

IW-2 - Shaft liner party wall with plaster 41.0 Bulk Insulation both sides of shaft liner R1.5 No

## Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	5.0	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	13.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	43.1	None	No Insulation	Cork Tiles or Parquetry 8mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616520-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616496-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 602, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

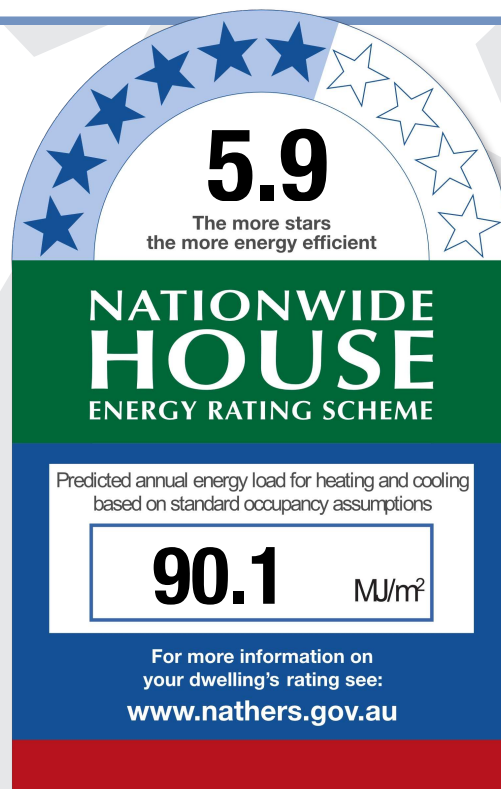
Conditioned: **71.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **76.0**

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

Heating: **58.3**  
Cooling: **31.8**  
TOTAL: **90.1**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616496-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2700	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3700	SW	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	2350	SW	Awning
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No
EW-2	Brick Veneer	Foil, Anti-glare one side, Reflective other	Yes

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	2995	2790	SW	No	2925
Kitchen/Living	EW-1	3995	2790	SW	No	1175
Kitchen/Living	EW-1	1750	2790	NW	No	4725
Bedroom 1	EW-1	1150	2790	NW	No	8675
Bedroom 1	EW-1	4845	2790	SE	No	0
Bedroom 1	EW-1	707	2790	S	No	0
Bedroom 1	EW-1	2600	2790	SW	No	0
Ens	EW-1	2240	2790	SE	No	0
Bath	EW-1	1242	2790	E	No	0
Bath	EW-1	895	2790	SE	No	0

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	61.0	No insulation	No
IW-2 - Shaft liner party wall with	43.0	Bulk Insulation both sides of shaft liner R1.5	No

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616496-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features continued

plaster

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.4	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	39.5	None	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.7	None	No Insulation	Ceramic Tiles 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616496-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616462-02

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 603, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

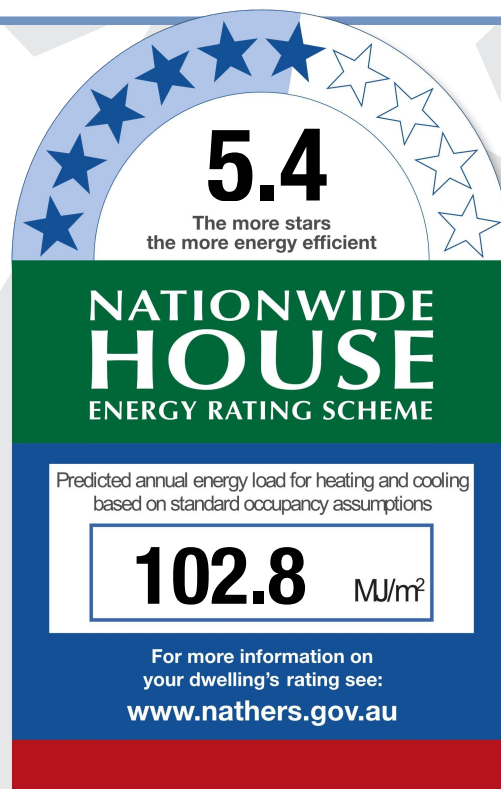
Conditioned: **44.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **48.0**

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

Heating: **52.0**  
Cooling: **50.7**  
TOTAL: **102.8**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

**\*\*NOTE:** This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616462-02

Certificate Date:

24 Feb 2020

★ Star rating:

5.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	2100	SW	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	900	SW	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	2400	NW	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2995	2790	SW	No	2600
Kitchen/Living	EW-1	2850	2790	SE	No	3025
Kitchen/Living	EW-1	3700	2790	SW	No	0
Kitchen/Living	EW-1	2600	2790	NW	No	4450

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	51.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	25.0	No insulation	No

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	4.2	None	No Insulation	Ceramic Tiles 8mm

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616462-02**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**5.4**

### Building features continued

Bedroom 1	Concrete Slab, Unit Below 250mm	12.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	31.7	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616462-02

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Additional information

## Explanatory notes

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### Contact

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616439-02

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 604, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

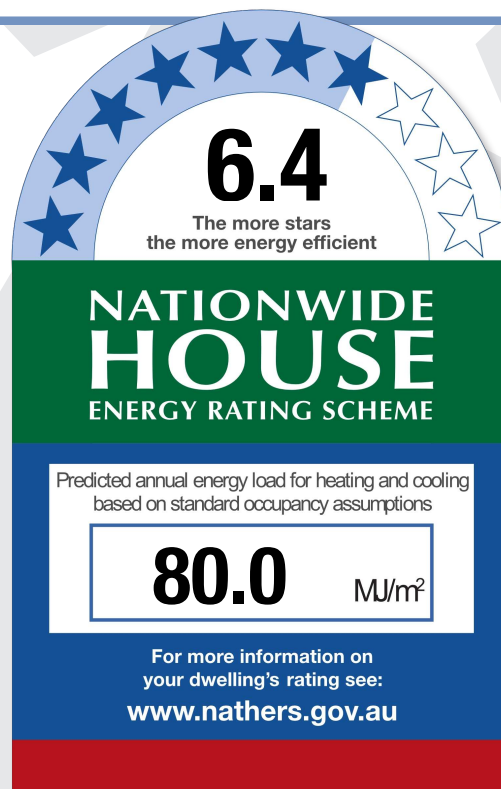
Conditioned: **49.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **53.0**

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

Heating: **41.4**  
Cooling: **38.6**  
TOTAL: **80.0**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616439-02

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	1200	W	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	3300	W	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3445	2790	SW	No	1950
Kitchen/Living	EW-1	1882	2790	S	No	2247
Kitchen/Living	EW-1	1956	2790	W	No	0
Kitchen/Living	EW-1	3824	2790	W	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	54.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	26.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	13.2	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below	4.3	None	No Insulation	Ceramic Tiles

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616439-02

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



### Building features continued

	250mm				8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	35.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616439-02

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Additional information

## Explanatory notes

### About this report

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616405-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.1



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 605, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-001-03 A Aluminium A SG High**  
**Solar Gain Low-E**

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

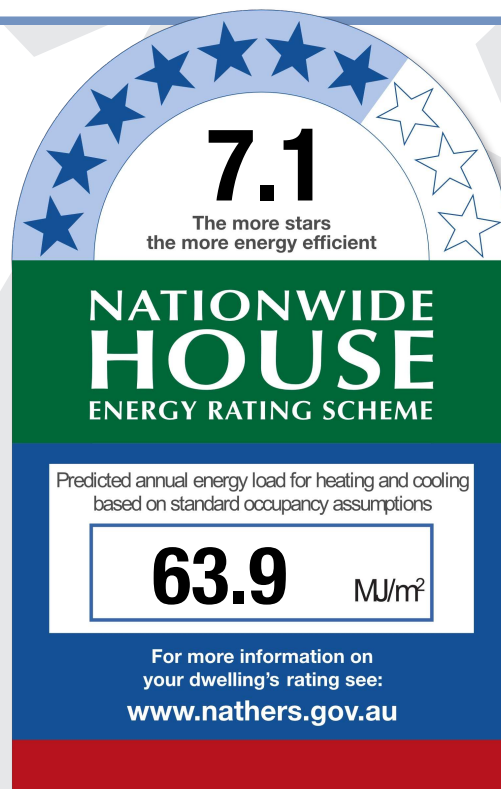
Conditioned: **69.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **74.0**

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

Heating: **35.4**  
Cooling: **28.4**  
TOTAL: **63.9**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

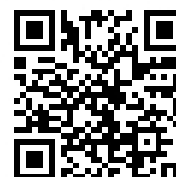
Note on allowable window values:  
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Scan to access this certificate online and confirm this is valid.



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616405-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.1



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-03 A	ALM-001-03 A Aluminium A SG High Solar Gain Low-E	5.4	0.49

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-001-03 A	n/a	2700	2400	W	No Shading
Bedroom 1	ALM-001-03 A	n/a	1800	2000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	1800	3000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3010	2790	W	No	3121
Bedroom 1	EW-1	3005	2790	W	No	0
Kitchen/Living	EW-1	4031	2790	W	No	0
Kitchen/Living	EW-1	3157	2790	N	No	4887

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	67.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	55.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm



## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616405-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**7.1**

### Building features continued

Bedroom 2	Concrete Slab, Unit Below 250mm	10.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.3	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	37.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616405-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.1



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616330-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 606, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

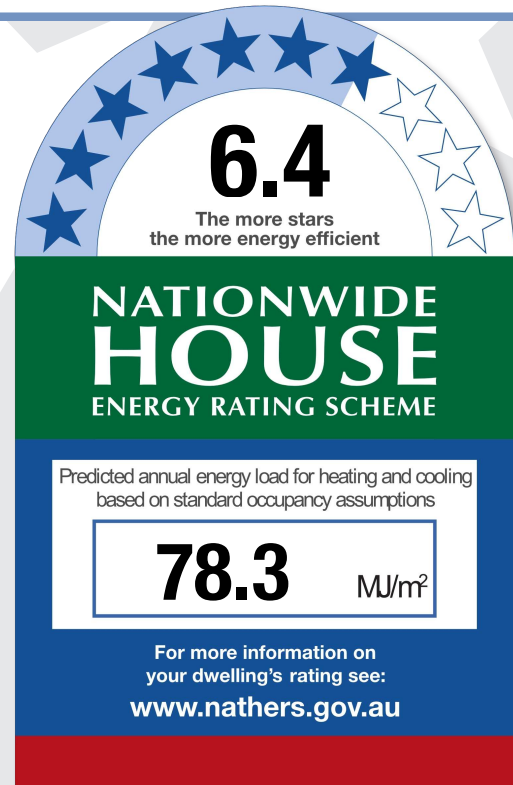
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **26.5**  
Cooling: **51.9**  
TOTAL: **78.3**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

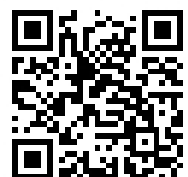
Note on allowable window values:  
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616330-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	2100	W	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	N	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	W	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	W	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3081	2790	W	No	35
Bedroom 1	EW-1	5447	2790	N	No	35
Bedroom 1	EW-1	1092	2790	S	No	8596
Ens	EW-1	2220	2790	N	No	35
Bedroom 2	EW-1	3005	2790	W	No	2975
Bath	EW-1	917	2790	N	No	0
Bath	EW-1	743	2790	E	No	0
Bath	EW-1	618	2790	NE	No	0
Kitchen/Living	EW-1	1835	2790	S	No	4405
Kitchen/Living	EW-1	4102	2790	W	No	1134

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No
IW-2 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616330-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features continued

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2	Concrete Slab, Unit Below 250mm	10.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.5	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	40.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616330-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616306-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 607, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

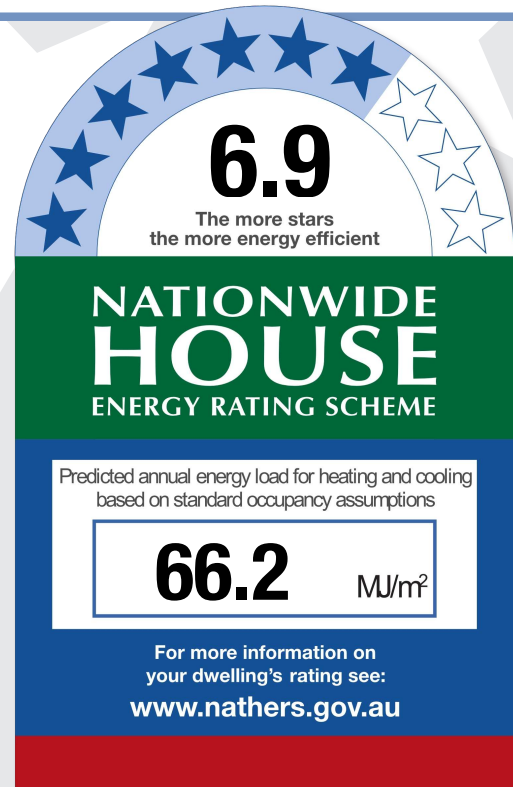
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **21.3**  
Cooling: **45.0**  
TOTAL: **66.2**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

**\*\*NOTE:** This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

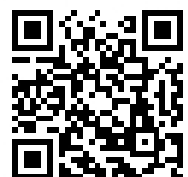
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616306-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	2400	E	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3900	E	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3043	2790	E	No	3173
Bedroom 1	EW-1	1129	2790	S	No	11336
Bedroom 1	EW-1	2296	2790	N	No	0
Bedroom 1	EW-1	3250	2790	N	No	25
Bedroom 1	EW-1	2512	2790	E	No	71
Ens	EW-1	2257	2790	N	No	0
Bath	EW-1	1315	2790	NW	No	25
Bath	EW-1	846	2790	N	No	35
Kitchen/Living	EW-1	4111	2790	E	No	1207
Kitchen/Living	EW-1	1980	2790	S	No	6947

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616306-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.9



## Building features continued

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.5	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.8	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.6	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	41.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616306-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.9



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616272-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 608, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

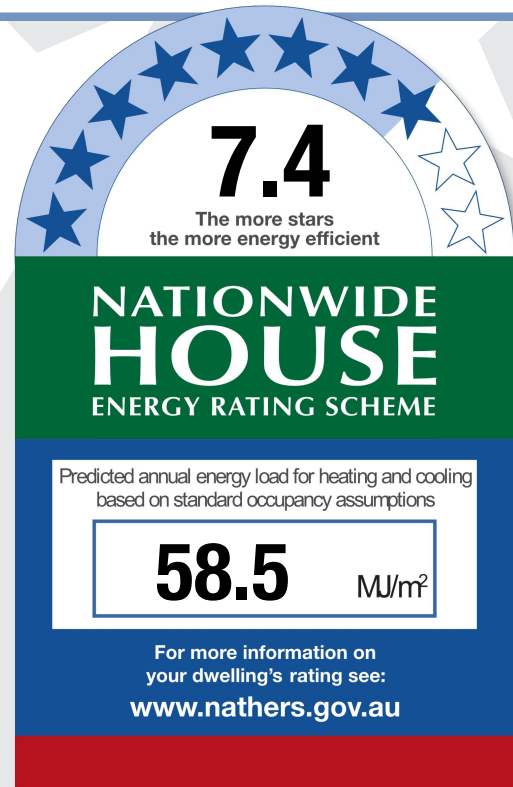
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **18.6**  
Cooling: **39.8**  
TOTAL: **58.5**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

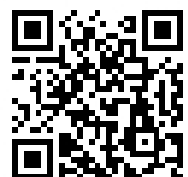
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616272-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	850	E	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	1550	E	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	3000	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	950	2790	E	No	71
Bedroom 1	EW-1	1773	2790	E	No	56
Bedroom 1	EW-1	600	2790	NE	No	25
Bedroom 2	EW-1	3073	2790	E	No	3042
Kitchen/Living	EW-1	4172	2790	E	No	35
Kitchen/Living	EW-1	3015	2790	N	No	5508

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	71.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	57.0	No insulation	No

## Floors



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616272-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**7.4**

## Building features continued

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	5.1	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	38.9	None	No Insulation	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616272-01

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★ Star rating: 7.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616736-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 701, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

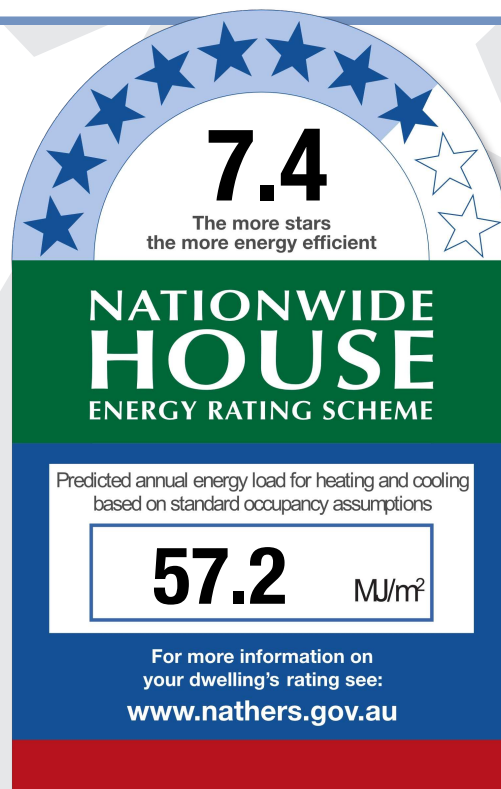
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **25.7**  
Cooling: **31.5**  
TOTAL: **57.2**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
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Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	900	NE	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	2700	1800	NW	No Shading
Bedroom 2	ALM-002-03 A	n/a	1800	900	SE	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	NE	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	1500	NE	No Shading
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2800	2790	NE	No	0
Bedroom 1	EW-1	335	2790	E	No	0
Bedroom 1	EW-1	320	2790	E	No	0
Bedroom 1	EW-1	3245	2790	SE	No	0
Bedroom 1	EW-1	1850	2790	NW	No	7050
Bedroom 2	EW-1	2795	2790	SE	No	0
Bedroom 2	EW-1	762	2790	SW	No	56
Bedroom 2	EW-1	610	2790	S	No	25
Kitchen/Living	EW-1	5945	2790	NE	No	1850
Kitchen/Living	EW-1	1900	2790	NW	No	1125
Ens	EW-1	2840	2790	SE	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
	59.0	No insulation	No

\* 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\* Certificate

Certificate number: 0004616736-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features continued

IW-1 - Cavity wall, direct fix plasterboard, single gap

IW-2 - Shaft liner party wall with plaster 41.0 Bulk Insulation both sides of shaft liner R1.5 No

## Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	5.0	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	13.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	43.1	None	No Insulation	Cork Tiles or Parquetry 8mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616736-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616710-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 702, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

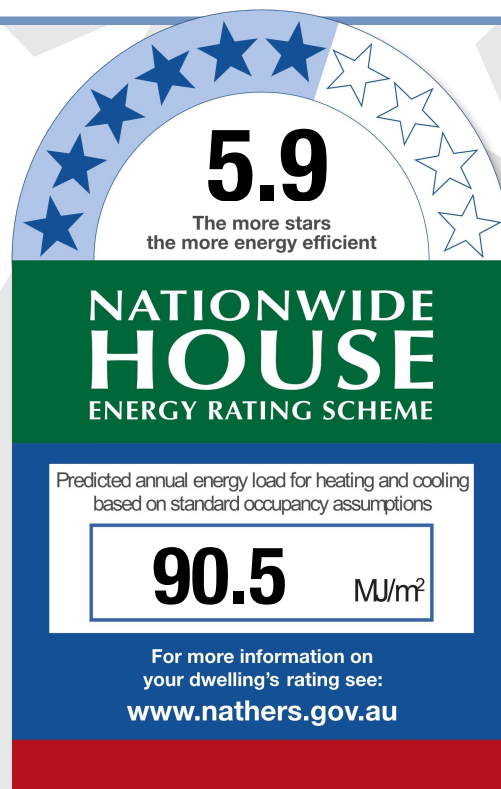
Conditioned: **71.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **76.0**

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

Heating: **58.7**  
Cooling: **31.8**  
TOTAL: **90.5**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616710-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2700	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3700	SW	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	2350	SW	Awning
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No
EW-2	Brick Veneer	Foil, Anti-glare one side, Reflective other	Yes

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	2995	2790	SW	No	2925
Kitchen/Living	EW-1	3995	2790	SW	No	1175
Kitchen/Living	EW-1	1750	2790	NW	No	4725
Bedroom 1	EW-1	1150	2790	NW	No	8675
Bedroom 1	EW-1	4845	2790	SE	No	0
Bedroom 1	EW-1	707	2790	S	No	0
Bedroom 1	EW-1	2600	2790	SW	No	0
Ens	EW-1	2240	2790	SE	No	0
Bath	EW-1	1242	2790	E	No	0
Bath	EW-1	895	2790	SE	No	0

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	61.0	No insulation	No
IW-2 - Shaft liner party wall with	43.0	Bulk Insulation both sides of shaft liner R1.5	No

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616710-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features continued

plaster

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.4	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	39.5	None	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.7	None	No Insulation	Ceramic Tiles 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616710-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616686-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 703, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

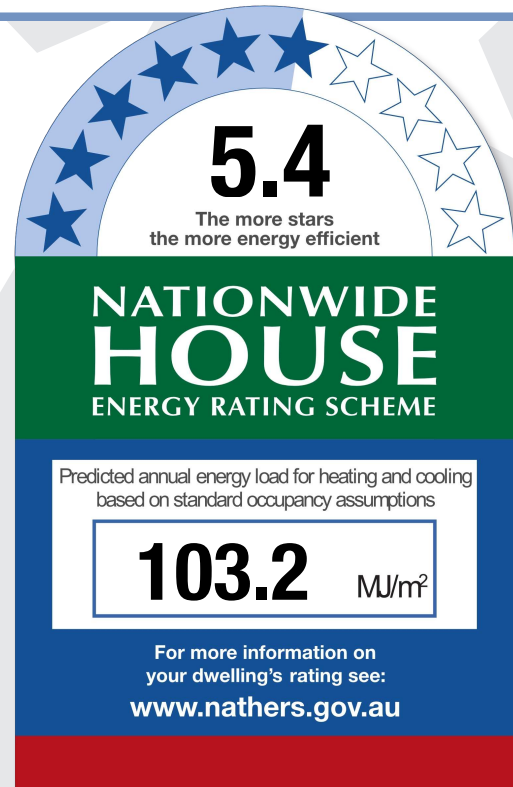
Conditioned: **44.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **48.0**

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

Heating: **52.5**  
Cooling: **50.8**  
TOTAL: **103.2**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

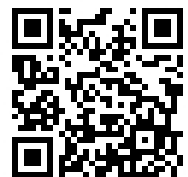
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616686-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	2100	SW	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	900	SW	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	2400	NW	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2995	2790	SW	No	2600
Kitchen/Living	EW-1	2850	2790	SE	No	3025
Kitchen/Living	EW-1	3700	2790	SW	No	0
Kitchen/Living	EW-1	2600	2790	NW	No	4450

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	51.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	25.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	4.2	None	No Insulation	Ceramic Tiles 8mm



## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616686-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**5.4**

### Building features continued

Bedroom 1	Concrete Slab, Unit Below 250mm	12.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	31.7	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616686-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



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## Explanatory notes

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For more details see [www.nathers.gov.au](http://www.nathers.gov.au)

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616652-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 704, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

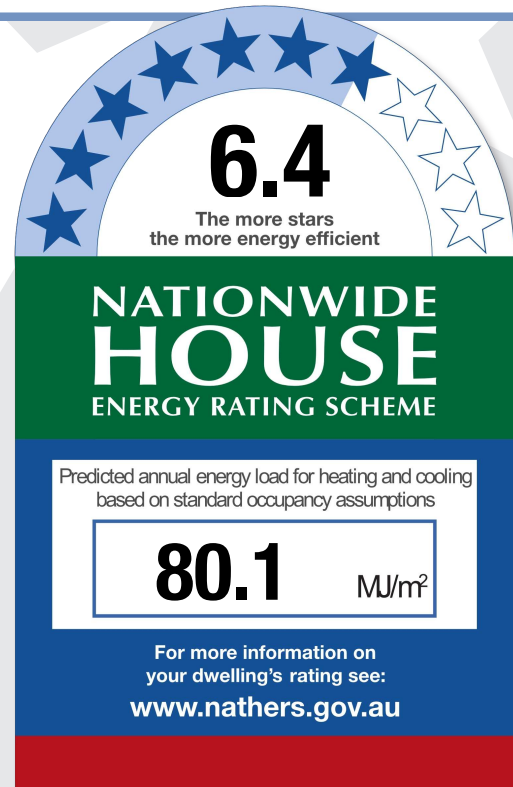
Conditioned: **49.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **53.0**

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

Heating: **41.8**  
Cooling: **38.4**  
TOTAL: **80.1**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

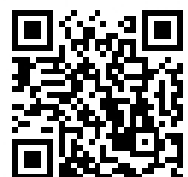
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Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616652-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	1200	W	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	3300	W	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3445	2790	SW	No	1950
Kitchen/Living	EW-1	1882	2790	S	No	2247
Kitchen/Living	EW-1	1956	2790	W	No	0
Kitchen/Living	EW-1	3824	2790	W	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	54.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	26.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	13.2	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below	4.3	None	No Insulation	Ceramic Tiles

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## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616652-01

Certificate Date:

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★ Star rating:

6.4



### Building features continued

	250mm				8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	35.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

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★ Star rating: 6.4



## Additional information

## Explanatory notes

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### Contact

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616629-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.1



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 705, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-001-03 A Aluminium A SG High**  
**Solar Gain Low-E**

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

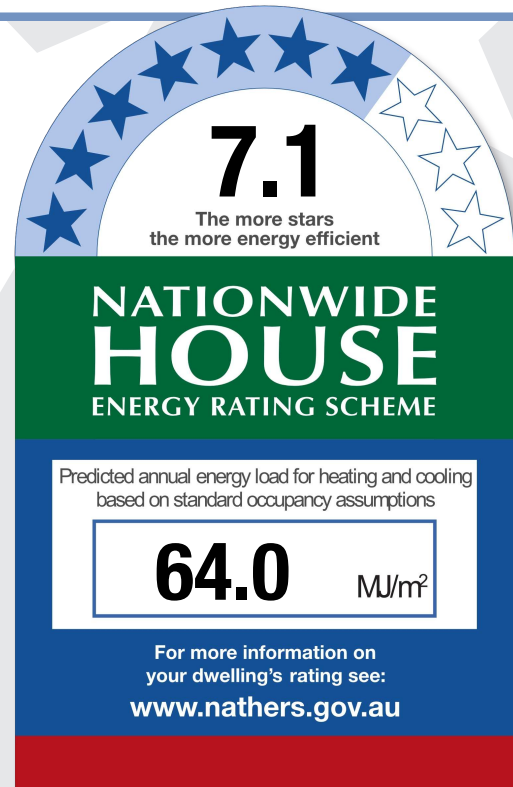
Conditioned: **69.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **74.0**

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

Heating: **35.8**  
Cooling: **28.2**  
TOTAL: **64.0**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616629-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.1



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-03 A	ALM-001-03 A Aluminium A SG High Solar Gain Low-E	5.4	0.49

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-001-03 A	n/a	2700	2400	W	No Shading
Bedroom 1	ALM-001-03 A	n/a	1800	2000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	1800	3000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3010	2790	W	No	3121
Bedroom 1	EW-1	3005	2790	W	No	0
Kitchen/Living	EW-1	4031	2790	W	No	0
Kitchen/Living	EW-1	3157	2790	N	No	4887

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	67.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	55.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616629-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**7.1**

### Building features continued

Bedroom 2	Concrete Slab, Unit Below 250mm	10.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.3	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	37.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616629-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.1



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616595-02

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 706, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

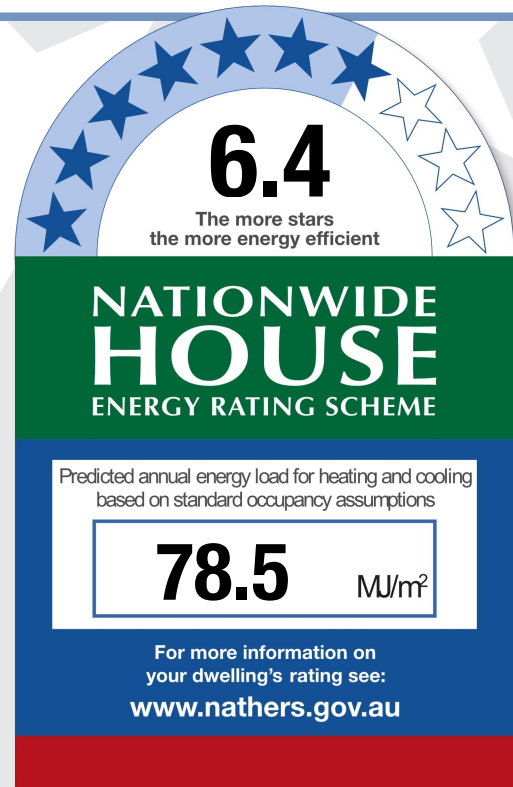
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **26.7**  
Cooling: **51.8**  
TOTAL: **78.5**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

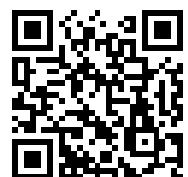
Note on allowable window values:  
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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616595-02

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	2100	W	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	N	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	W	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	W	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3081	2790	W	No	35
Bedroom 1	EW-1	5447	2790	N	No	35
Bedroom 1	EW-1	1092	2790	S	No	8596
Ens	EW-1	2220	2790	N	No	35
Bedroom 2	EW-1	3005	2790	W	No	2975
Bath	EW-1	917	2790	N	No	0
Bath	EW-1	743	2790	E	No	0
Bath	EW-1	618	2790	NE	No	0
Kitchen/Living	EW-1	1835	2790	S	No	4405
Kitchen/Living	EW-1	4102	2790	W	No	1134

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No
IW-2 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616595-02

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features continued

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2	Concrete Slab, Unit Below 250mm	10.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.5	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	40.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

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Certificate number: 0004616595-02

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616553-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 707, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

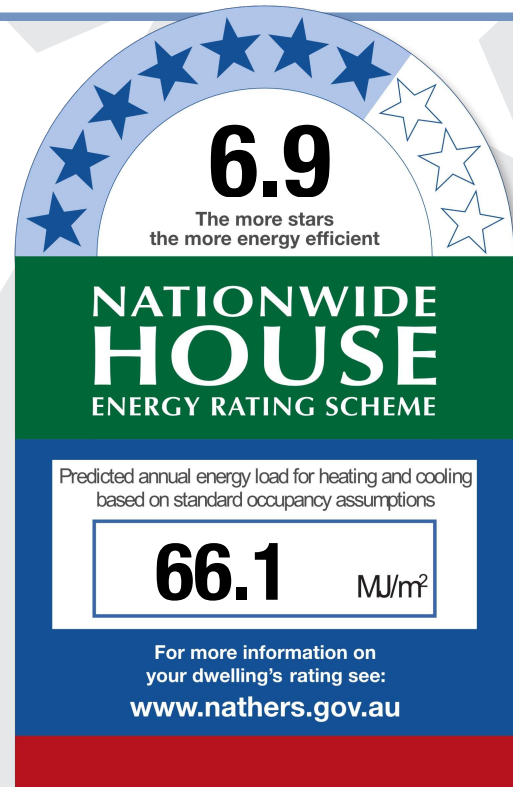
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **21.6**  
Cooling: **44.5**  
TOTAL: **66.1**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

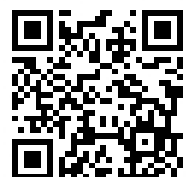
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616553-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	2400	E	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3900	E	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3043	2790	E	No	3173
Bedroom 1	EW-1	1129	2790	S	No	11336
Bedroom 1	EW-1	2296	2790	N	No	0
Bedroom 1	EW-1	3250	2790	N	No	25
Bedroom 1	EW-1	2512	2790	E	No	71
Ens	EW-1	2257	2790	N	No	0
Bath	EW-1	1315	2790	NW	No	25
Bath	EW-1	846	2790	N	No	35
Kitchen/Living	EW-1	4111	2790	E	No	1207
Kitchen/Living	EW-1	1980	2790	S	No	6947

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616553-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.9



## Building features continued

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.5	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.8	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.6	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	41.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Ens	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616553-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.9



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616538-01

Certificate Date: 24 Feb 2020

★ Star rating: 7.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 708, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete, Plasterboard**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**No ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

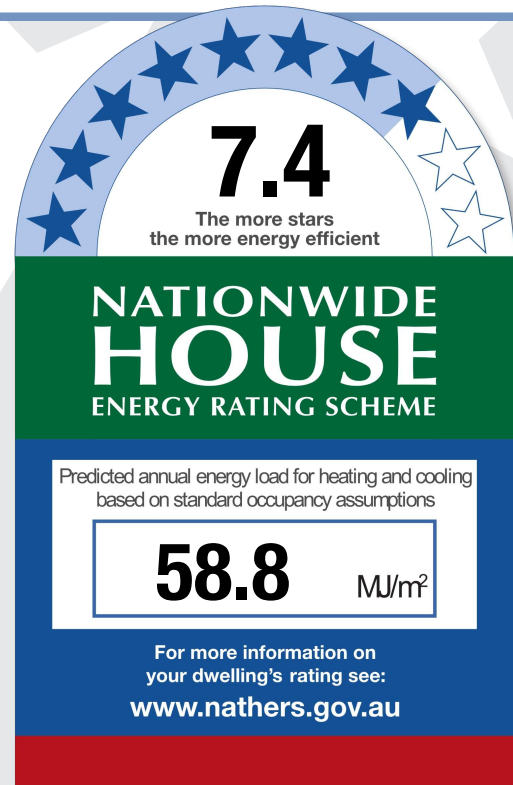
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **18.9**  
Cooling: **39.9**  
TOTAL: **58.8**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616538-01

Certificate Date:

24 Feb 2020

★ Star rating:

7.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	850	E	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	1550	E	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	3000	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	950	2790	E	No	71
Bedroom 1	EW-1	1773	2790	E	No	56
Bedroom 1	EW-1	600	2790	NE	No	25
Bedroom 2	EW-1	3073	2790	E	No	3042
Kitchen/Living	EW-1	4172	2790	E	No	35
Kitchen/Living	EW-1	3015	2790	N	No	5508

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	71.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	57.0	No insulation	No

## Floors

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616538-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**7.4**

## Building features continued

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	5.1	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	38.9	None	No Insulation	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Concrete, Plasterboard	No insulation	No
Bedroom 1	Concrete, Plasterboard	No insulation	No
Bedroom 2	Concrete, Plasterboard	No insulation	No
Bath	Concrete, Plasterboard	No insulation	No
Kitchen/Living	Concrete, Plasterboard	No insulation	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
None Present		

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616538-01

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★ Star rating: 7.4



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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616504-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 801, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**R3.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

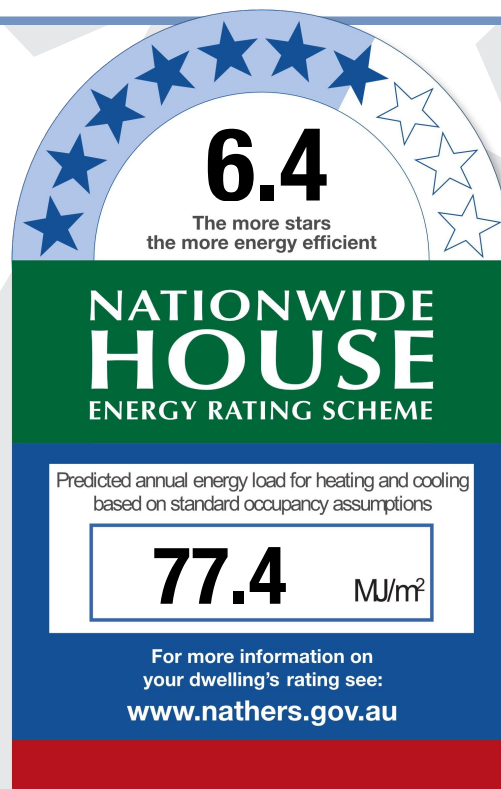
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **40.9**  
Cooling: **36.5**  
TOTAL: **77.4**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle downlight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
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Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

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Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	900	NE	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-002-03 A	n/a	2700	1800	NW	No Shading
Bedroom 2	ALM-002-03 A	n/a	1800	900	SE	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	NE	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	1500	NE	No Shading
Ens	ALM-002-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2800	2790	NE	No	0
Bedroom 1	EW-1	335	2790	E	No	0
Bedroom 1	EW-1	320	2790	E	No	0
Bedroom 1	EW-1	3245	2790	SE	No	0
Bedroom 1	EW-1	1850	2790	NW	No	7050
Bedroom 2	EW-1	2795	2790	SE	No	0
Bedroom 2	EW-1	762	2790	SW	No	56
Bedroom 2	EW-1	610	2790	S	No	25
Kitchen/Living	EW-1	5945	2790	NE	No	1850
Kitchen/Living	EW-1	1900	2790	NW	No	1125
Ens	EW-1	2840	2790	SE	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
	59.0	No insulation	No

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★ Star rating:

6.4



## Building features continued

IW-1 - Cavity wall, direct fix plasterboard, single gap

IW-2 - Shaft liner party wall with plaster 41.0 Bulk Insulation both sides of shaft liner R1.5 No

## Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	5.0	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	13.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	43.1	None	No Insulation	Cork Tiles or Parquetry 8mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Plasterboard	Bulk Insulation R3	No
Bedroom 1	Plasterboard	Bulk Insulation R3	No
Bedroom 2	Plasterboard	Bulk Insulation R3	No
Kitchen/Living	Plasterboard	Bulk Insulation R3	No
Ens	Plasterboard	Bulk Insulation R3	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616504-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**6.4**



### Building features continued

Construction	Added insulation	Roof colour
Concrete	No Insulation, Only an Air Gap	Light

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616504-01

Certificate Date: 24 Feb 2020

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616470-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 802, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**R3.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-004-03 A Aluminium B DG Air Fill**  
**High Solar Gain low-E -Clear**

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

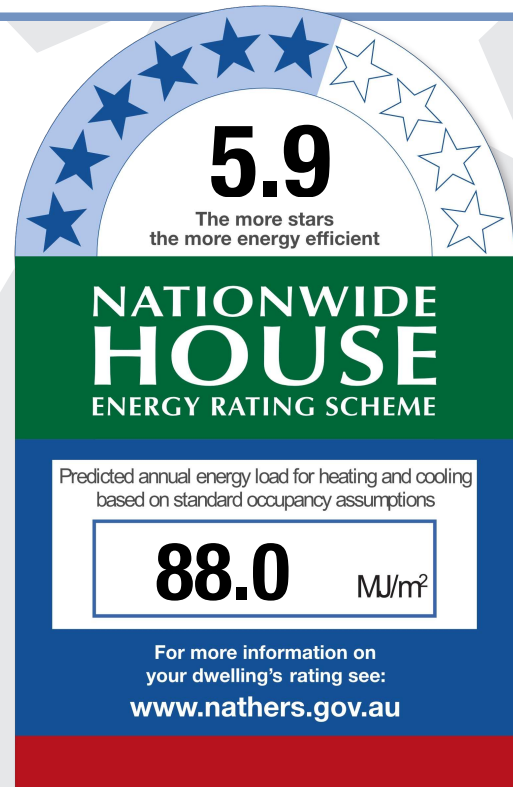
Conditioned: **71.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **76.0**

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

Heating: **56.6**  
Cooling: **31.3**  
TOTAL: **88.0**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616470-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-004-03 A	ALM-004-03 A Aluminium B DG Air Fill High Solar Gain low-E -Clear	4.3	0.53

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-004-03 A	n/a	2700	2700	SW	No Shading
Kitchen/Living	ALM-004-03 A	n/a	2700	3700	SW	No Shading
Bedroom 1	ALM-004-03 A	n/a	1800	900	SE	Awning
Bedroom 1	ALM-004-03 A	n/a	1800	2350	SW	Awning
Ens	ALM-004-03 A	n/a	1800	900	SE	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No
EW-2	Brick Veneer	Foil, Anti-glare one side, Reflective other	Yes

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	2995	2790	SW	No	2925
Kitchen/Living	EW-1	3995	2790	SW	No	1175
Kitchen/Living	EW-1	1750	2790	NW	No	4725
Bedroom 1	EW-1	1150	2790	NW	No	8675
Bedroom 1	EW-1	4845	2790	SE	No	0
Bedroom 1	EW-1	707	2790	S	No	0
Bedroom 1	EW-1	2600	2790	SW	No	0
Ens	EW-1	2240	2790	SE	No	0
Bath	EW-1	1242	2790	E	No	0
Bath	EW-1	895	2790	SE	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	61.0	No insulation	No
IW-2 - Shaft liner party wall with	43.0	Bulk Insulation both sides of shaft liner R1.5	No

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616470-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.9



## Building features continued

plaster

### Floors

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.4	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	39.5	None	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.7	None	No Insulation	Ceramic Tiles 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Plasterboard	Bulk Insulation R3	No
Kitchen/Living	Plasterboard	Bulk Insulation R3	No
Bedroom 1	Plasterboard	Bulk Insulation R3	No
Ens	Plasterboard	Bulk Insulation R3	No
Bath	Plasterboard	Bulk Insulation R3	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
Concrete		Light

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## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616470-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**5.9**



### Building features continued

No Insulation,  
Only an Air Gap

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616470-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.9



## 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 the report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616447-02

Certificate Date: 24 Feb 2020

★ Star rating: 5.1



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 803, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**R3.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-004-01 A Aluminium B DG Air Fill**  
**Clear-Clear**

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

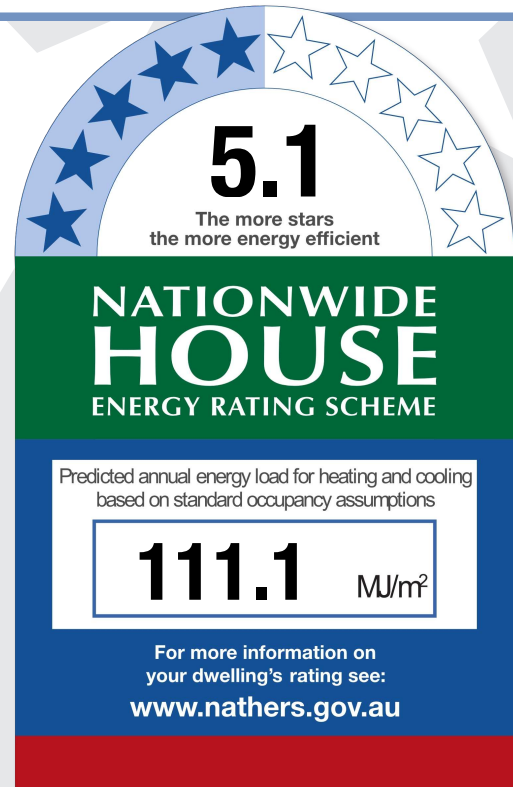
Conditioned: **44.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **48.0**

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

Heating: **57.6**  
Cooling: **53.5**  
TOTAL: **111.1**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

**\*\*NOTE:** This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

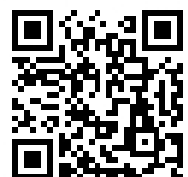
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Scan to access this certificate online and confirm this is valid.



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616447-02

Certificate Date:

24 Feb 2020

★ Star rating:

5.1



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-004-01 A	ALM-004-01 A Aluminium B DG Air Fill Clear-Clear	4.8	0.59

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-004-01 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-004-01 A	n/a	1800	2100	SW	Awning
Kitchen/Living	ALM-004-01 A	n/a	1800	900	SW	Awning
Kitchen/Living	ALM-004-01 A	n/a	2700	2400	NW	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	2995	2790	SW	No	2600
Kitchen/Living	EW-1	2850	2790	SE	No	3025
Kitchen/Living	EW-1	3700	2790	SW	No	0
Kitchen/Living	EW-1	2600	2790	NW	No	4450

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	51.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	25.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bath	Concrete Slab, Unit Below 250mm	4.2	None	No Insulation	Ceramic Tiles 8mm

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616447-02**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**5.1**

### Building features continued

Bedroom 1	Concrete Slab, Unit Below 250mm	12.1	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	31.7	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bath	Plasterboard	Bulk Insulation R3	No
Bedroom 1	Plasterboard	Bulk Insulation R3	No
Kitchen/Living	Plasterboard	Bulk Insulation R3	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
Concrete	No Insulation, Only an Air Gap	Light

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616447-02

Certificate Date: 24 Feb 2020

★ Star rating: 5.1



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616413-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 804, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**R3.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

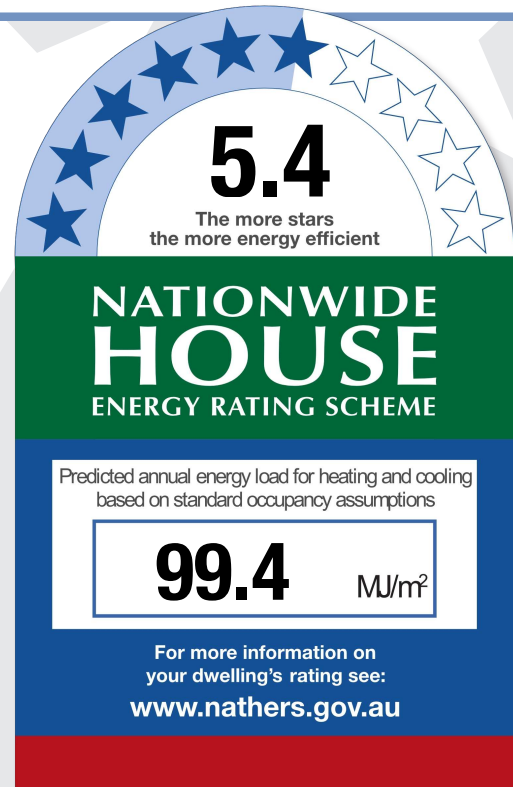
Conditioned: **49.0**  
Unconditioned: **4.0**  
Garage: **0.0**  
TOTAL: **53.0**

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

Heating: **57.7**  
Cooling: **41.7**  
TOTAL: **99.4**

## Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

Sealed: **2**  
Unsealed: **0**  
TOTAL:\*\* **2**

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616413-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	2700	2400	SW	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	1200	W	Awning
Kitchen/Living	ALM-002-03 A	n/a	1800	3300	W	Awning

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3445	2790	SW	No	1950
Kitchen/Living	EW-1	1882	2790	S	No	2247
Kitchen/Living	EW-1	1956	2790	W	No	0
Kitchen/Living	EW-1	3824	2790	W	No	0

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	54.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	26.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	13.2	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below	4.3	None	No Insulation	Ceramic Tiles

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616413-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.4



### Building features continued

	250mm				8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	35.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Plasterboard	Bulk Insulation R3	No
Bath	Plasterboard	Bulk Insulation R3	No
Kitchen/Living	Plasterboard	Bulk Insulation R3	No

### Ceiling penetrations

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

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
Concrete	No Insulation, Only an Air Gap	Light

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616413-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616389-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.1



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 805, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**R3.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-001-03 A Aluminium A SG High**  
**Solar Gain Low-E**

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

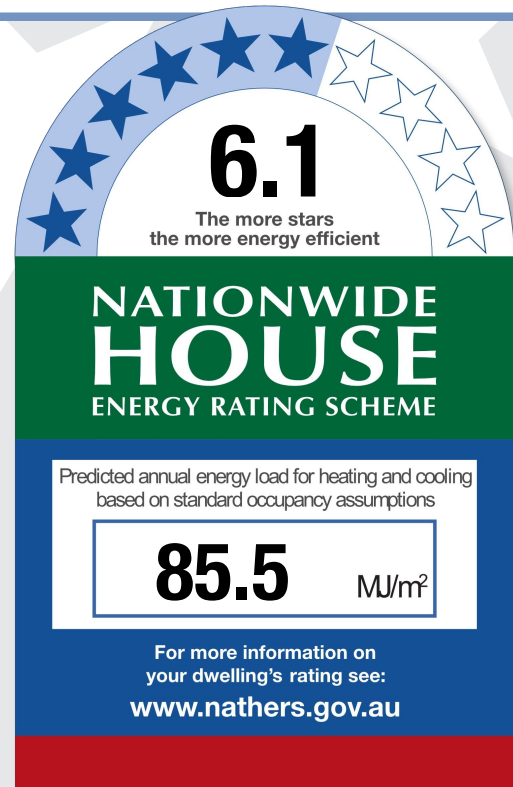
Conditioned: **69.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **74.0**

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

Heating: **52.4**  
Cooling: **33.1**  
TOTAL: **85.5**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616389-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.1



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-001-03 A	ALM-001-03 A Aluminium A SG High Solar Gain Low-E	5.4	0.49

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-001-03 A	n/a	2700	2400	W	No Shading
Bedroom 1	ALM-001-03 A	n/a	1800	2000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	1800	3000	W	Awning
Kitchen/Living	ALM-001-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3010	2790	W	No	3121
Bedroom 1	EW-1	3005	2790	W	No	0
Kitchen/Living	EW-1	4031	2790	W	No	0
Kitchen/Living	EW-1	3157	2790	N	No	4887

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	67.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	55.0	No insulation	No

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm



## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0004616389-01**

Certificate Date:

**24 Feb 2020**

★ Star rating:

**6.1**

### Building features continued

Bedroom 2	Concrete Slab, Unit Below 250mm	10.7	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.3	None	No Insulation	Carpet+Rubber Underlay 18mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	37.4	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Plasterboard	Bulk Insulation R3	No
Bedroom 2	Plasterboard	Bulk Insulation R3	No
Bath	Plasterboard	Bulk Insulation R3	No
Bedroom 1	Plasterboard	Bulk Insulation R3	No
Kitchen/Living	Plasterboard	Bulk Insulation R3	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
Concrete	No Insulation, Only an Air Gap	Light

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616389-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.1



## Additional information

## Explanatory notes

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616355-01

Certificate Date: 24 Feb 2020

★ Star rating: 5.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 806, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**R3.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

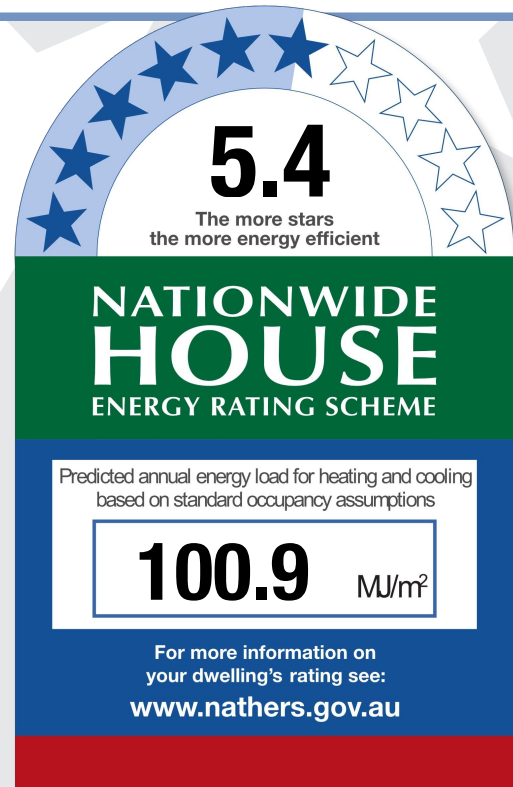
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **43.0**  
Cooling: **57.9**  
TOTAL: **100.9**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
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Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616355-01

Certificate Date:

24 Feb 2020

★ Star rating:

5.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	2100	W	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	900	N	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	W	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	3600	W	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	3081	2790	W	No	35
Bedroom 1	EW-1	5447	2790	N	No	35
Bedroom 1	EW-1	1092	2790	S	No	8596
Ens	EW-1	2220	2790	N	No	35
Bedroom 2	EW-1	3005	2790	W	No	2975
Bath	EW-1	917	2790	N	No	0
Bath	EW-1	743	2790	E	No	0
Bath	EW-1	618	2790	NE	No	0
Kitchen/Living	EW-1	1835	2790	S	No	4405
Kitchen/Living	EW-1	4102	2790	W	No	1134

### Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No
IW-2 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616355-01

Certificate Date:

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5.4



## Building features continued

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.5	None	No Insulation	Ceramic Tiles 8mm
Bedroom 2	Concrete Slab, Unit Below 250mm	10.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	4.5	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	40.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 1	Plasterboard	Bulk Insulation R3	No
Ens	Plasterboard	Bulk Insulation R3	No
Bedroom 2	Plasterboard	Bulk Insulation R3	No
Bath	Plasterboard	Bulk Insulation R3	No
Kitchen/Living	Plasterboard	Bulk Insulation R3	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
Concrete	No Insulation, Only an Air Gap	Light

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★ Star rating: 5.4



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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616322-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.1



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 807, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**R3.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

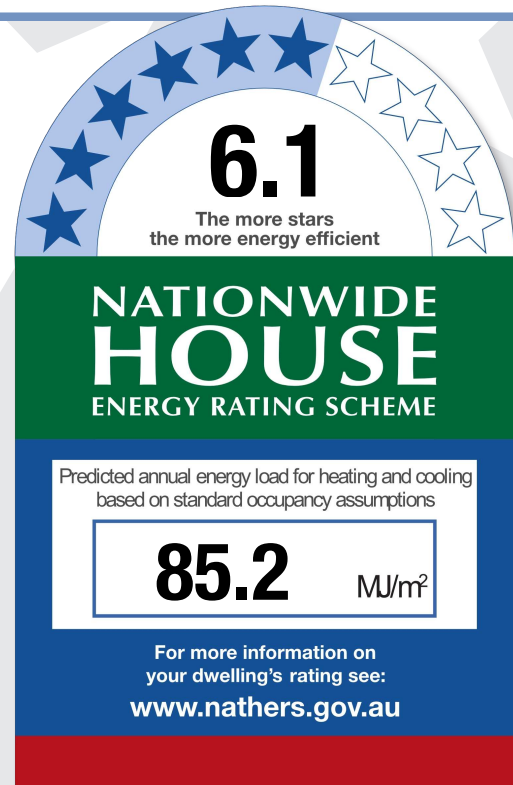
Conditioned: **74.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **79.0**

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

Heating: **35.3**  
Cooling: **49.8**  
TOTAL: **85.2**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

Note on allowable window values:  
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Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

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Certificate Date:

24 Feb 2020

★ Star rating:

6.1



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Bedroom 1	ALM-002-03 A	n/a	1800	2400	E	No Shading
Ens	ALM-002-03 A	n/a	1800	900	N	Awning
Kitchen/Living	ALM-002-03 A	n/a	2700	3900	E	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 2	EW-1	3043	2790	E	No	3173
Bedroom 1	EW-1	1129	2790	S	No	11336
Bedroom 1	EW-1	2296	2790	N	No	0
Bedroom 1	EW-1	3250	2790	N	No	25
Bedroom 1	EW-1	2512	2790	E	No	71
Ens	EW-1	2257	2790	N	No	0
Bath	EW-1	1315	2790	NW	No	25
Bath	EW-1	846	2790	N	No	35
Kitchen/Living	EW-1	4111	2790	E	No	1207
Kitchen/Living	EW-1	1980	2790	S	No	6947

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	44.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	62.0	No insulation	No

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Certificate number: 0004616322-01

Certificate Date:

24 Feb 2020

★ Star rating:

6.1



## Building features continued

### Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Bedroom 2	Concrete Slab, Unit Below 250mm	10.5	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1	Concrete Slab, Unit Below 250mm	15.8	None	No Insulation	Carpet+Rubber Underlay 18mm
Ens	Concrete Slab, Unit Below 250mm	5.7	None	No Insulation	Ceramic Tiles 8mm
Bath	Concrete Slab, Unit Below 250mm	4.6	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	41.9	None	No Insulation	Cork Tiles or Parquetry 8mm

### Ceiling type

Location	Construction	Added insulation	Roof space above
Bedroom 2	Plasterboard	Bulk Insulation R3	No
Bedroom 1	Plasterboard	Bulk Insulation R3	No
Ens	Plasterboard	Bulk Insulation R3	No
Bath	Plasterboard	Bulk Insulation R3	No
Kitchen/Living	Plasterboard	Bulk Insulation R3	No

### Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Number	Diameter (mm)
None Present		

### Roof type

Construction	Added insulation	Roof colour
Concrete	No Insulation, Only an Air Gap	Light

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616322-01

Certificate Date: 24 Feb 2020

★ Star rating: 6.1



## Additional information

## Explanatory notes

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### General Information

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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.

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### Contact

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616280-02

Certificate Date: 24 Feb 2020

★ Star rating: 6.4



## Assessor details

Accreditation number: **VIC/BDAV/16/1757**  
Name: **Conor Horwood**  
Organisation: **Accelerate Sustainability Assessments**  
Email: **conor.horwood@accsa.net.au**  
Phone: **07 3069 5757**  
Declaration of interest: **None**  
Software: **BERS Pro v4.4.0.0 (3.21)**  
AAO: **BDAV**

## Overview

### Dwelling details

Street: **Unit 808, Lot 3008 Lord Sheffield Circuit**  
Suburb: **Penrith**  
State: **NSW** Postcode: **2750**  
Type: **New Dwelling** NCC Class: **2**  
NatHERS climate zone: **28**  
Lot/DP number: **3008/-** Exposure: **Open**

### Key construction and insulation materials

(see following pages for details)

Construction: **Brick Veneer**  
**Concrete**  
**Concrete Slab, Unit Below**  
Insulation: **R1.5 wall insulation**  
**R3.0 ceiling insulation**  
**No floor insulation**  
Glazing: **ALM-002-03 A Aluminium B SG High**  
**Solar Gain Low-E**

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

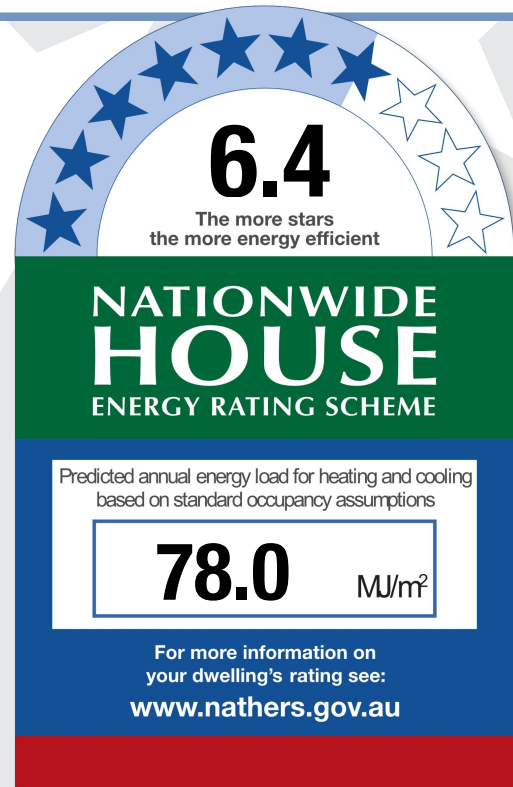
Conditioned: **73.0**  
Unconditioned: **5.0**  
Garage: **0.0**  
TOTAL: **78.0**

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

Heating: **32.7**  
Cooling: **45.3**  
TOTAL: **78.0**

### Plan documents

Plan ref/date: **11749, Revision E**  
Prepared by: **DKO**



### Ceiling penetrations

(see following pages for details)

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

\*\*NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required.** Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principle daylight type: **Unknown**

### Window selection - default windows only

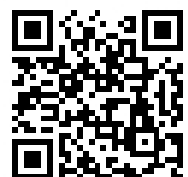
Note on allowable window values:  
Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/- 5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

**If any of windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.**

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



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004616280-02

Certificate Date:

24 Feb 2020

★ Star rating:

6.4



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-03 A	ALM-002-03 A Aluminium B SG High Solar Gain Low-E	5.4	0.58

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Bedroom 1	ALM-002-03 A	n/a	1800	850	E	Awning
Bedroom 1	ALM-002-03 A	n/a	1800	1550	E	Awning
Bedroom 2	ALM-002-03 A	n/a	2700	2400	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	1800	3000	E	No Shading
Kitchen/Living	ALM-002-03 A	n/a	2700	2700	N	No Shading

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
None Present			

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Indoor shade/diffuser
None Present						

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Brick Veneer	Bulk Insulation R1.5	No

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Bedroom 1	EW-1	950	2790	E	No	71
Bedroom 1	EW-1	1773	2790	E	No	56
Bedroom 1	EW-1	600	2790	NE	No	25
Bedroom 2	EW-1	3073	2790	E	No	3042
Kitchen/Living	EW-1	4172	2790	E	No	35
Kitchen/Living	EW-1	3015	2790	N	No	5508

### Internal wall type

Wall type	Area (m <sup>2</sup> )	Insulation	Wall wrap or foil
IW-1 - Shaft liner party wall with plaster	71.0	Bulk Insulation both sides of shaft liner R1.5	No
IW-2 - Cavity wall, direct fix plasterboard, single gap	57.0	No insulation	No

## Floors



# Nationwide House Energy Rating Scheme\* Certificate

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24 Feb 2020

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6.4



## Building features continued

Location	Construction	Area (m <sup>2</sup> )	Sub floor ventilation	Added insulation	Covering
Ens	Concrete Slab, Unit Below 250mm	5.9	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab, Unit Below 250mm	16.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 2	Concrete Slab, Unit Below 250mm	11.6	None	No Insulation	Carpet+Rubber Underlay 18mm
Bath	Concrete Slab, Unit Below 250mm	5.1	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab, Unit Below 250mm	38.9	None	No Insulation	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Ens	Plasterboard	Bulk Insulation R3	No
Bedroom 1	Plasterboard	Bulk Insulation R3	No
Bedroom 2	Plasterboard	Bulk Insulation R3	No
Bath	Plasterboard	Bulk Insulation R3	No
Kitchen/Living	Plasterboard	Bulk Insulation R3	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Ens	1	Exhaust Fans	300	Sealed
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## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
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