

# Nationwide House Energy Rating Scheme\* Certificate



Certificate number: **0003720075**

Certificate Date: **26 Mar 2019**

★ Star rating: **5.5**

BERS Pro v4.3.0.0 (3.13) cannot be used to model 'roof windows'. Roof windows are 'openable or fixed windows in a roof' and do not have a shaft, as distinct from skylights which incorporate a built-in shaft and are not ventilated. BERS Pro v4.3 can only model skylights. If a roof window is present on the floor plan then this certificate is not valid.

## Assessor details

Accreditation number: **55430**  
Name: **Chad Whittaker**  
Organisation: **Dartecha Design**  
Email: **cw@dartechadesign.com.au**  
Phone: **0439 622 809**  
Declaration of interest: **None**  
Software: **BERS Pro v4.3.0.2d (3.13)**  
AAO: **ABSA**

## Overview

### Dwelling details

Street: **Unit Main, 12 Patey St**  
Suburb: **Dee Why**  
State: **NSW** Postcode: **2099**  
Type: **New Dwelling** NCC Class: **1A**  
NatHERS climate zone: **56**  
Lot/DP number: **101/1034467** Exposure: **Suburban**

### Key construction and insulation materials

(see following pages for details)

Construction: **EPS Cavity Panel Direct Fix**  
**Corrugated Iron**  
**Concrete Slab on Ground**  
Insulation: **R2.5 wall insulation**  
**R3.0 ceiling insulation**  
**No floor insulation**  
Glazing: **AWS-005-07 A 514 AI Double Hung**  
**Window SG 6.38CP**

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

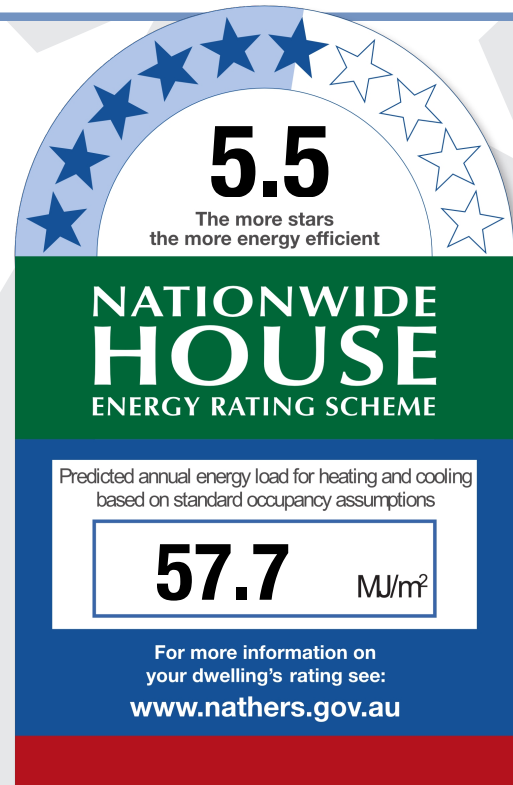
Conditioned: **226.0**  
Unconditioned: **176.0**  
Garage: **68.0**  
TOTAL: **402.0**

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

Heating: **33.2**  
Cooling: **24.5**  
TOTAL: **57.7**

## Plan documents

Plan ref/date: **Lewis House**  
Prepared by: **Sheralee Hogan**



### 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: **0003720075**

Certificate Date:

**26 Mar 2019**

★ Star rating:

**5.5**



## Building features

### Window type and performance value

Window ID	Window type	U-value	SHGC
AWS-005-07 A	AWS-005-07 A 514 Al Double Hung Window SG 6.38CP	4.4	0.45
AWS-007-07 A	AWS-007-07 A 516 Al Awining Window SG 6.38CP	4.9	0.41
AWS-011-06 A	AWS-011-06 A 541/542 Al Sliding Door SG 6.38CP	4.4	0.45
AWS-001-05 A	AWS-001-05 A 502/504 Al Sliding Window SG 6.38CP	4.6	0.45
AWS-066-03 A	AWS-066-03 A RES SERIES 516 FIXED WINDOW SG 638ComPlsClr	3.9	0.62
AWS-058-01 A	AWS-058-01 A SERIES 525 LOUVRE SERIES 400 CENTREGLAZED SG 6mmClr	6.1	0.55

### Window schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Outdoor shade
Entry Stairs Up	AWS-005-07 A	n/a	2400	700	E	No Shading
Master	AWS-007-07 A	n/a	600	1800	S	No Shading
Master	AWS-011-06 A	n/a	2400	1800	W	No Shading
Master	AWS-005-07 A	n/a	2400	700	W	No Shading
Master	AWS-005-07 A	n/a	2400	700	W	No Shading
Ensuite Master	AWS-007-07 A	n/a	600	1200	S	No Shading
Bedroom 2	AWS-011-06 A	n/a	2400	1800	W	No Shading
Bedroom 2	AWS-005-07 A	n/a	2400	700	W	No Shading
Bedroom 2	AWS-005-07 A	n/a	2400	700	W	No Shading
Bedroom 2	AWS-001-05 A	n/a	800	2000	N	No Shading
Ensuite 2	AWS-007-07 A	n/a	800	1200	N	No Shading
Bedroom 3	AWS-001-05 A	n/a	900	1700	S	No Shading
Bedroom 4	AWS-001-05 A	n/a	1200	2000	E	No Shading
Bath Grd	AWS-001-05 A	n/a	900	1600	S	No Shading
Bath Grd	AWS-001-05 A	n/a	900	1700	S	No Shading
Laund Bath	AWS-001-05 A	n/a	800	1600	N	No Shading
Kitchen/Living	AWS-011-06 A	n/a	2400	4000	E	No Shading
Kitchen/Living	AWS-005-07 A	n/a	2400	700	E	No Shading
Kitchen/Living	AWS-066-03 A	n/a	500	5000	E	No Shading
Kitchen/Living	AWS-007-07 A	n/a	600	2100	S	No Shading
Kitchen/Living	AWS-066-03 A	n/a	600	1800	S	No Shading
Kitchen/Living	AWS-007-07 A	n/a	600	4000	S	No Shading
Kitchen/Living	AWS-011-06 A	n/a	2400	2400	W	No Shading
Kitchen/Living	AWS-005-07 A	n/a	2400	900	W	No Shading
Kitchen/Living	AWS-005-07 A	n/a	2400	1200	W	No Shading
Kitchen/Living	AWS-066-03 A	n/a	400	3700	W	No Shading
Kitchen/Living	AWS-058-01 A	n/a	600	2600	N	No Shading
Kitchen/Living	AWS-066-03 A	n/a	600	4700	N	No Shading
Kitchen/Living	AWS-058-01 A	n/a	600	1900	N	No Shading
Kitchen/Living	AWS-066-03 A	n/a	600	3800	N	No Shading
Family Dining	AWS-011-06 A	n/a	2400	2700	W	No Shading
Family Dining	AWS-005-07 A	n/a	2400	1400	W	No Shading
Family Dining	AWS-005-07 A	n/a	2400	900	W	No Shading
Family Dining	AWS-001-05 A	n/a	900	4000	N	No Shading
Family Dining	AWS-066-03 A	n/a	600	1800	N	No Shading

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0003720075**

Certificate Date:

**26 Mar 2019**

★ Star rating:

**5.5**



## Building features continued

### Roof window and skylight type and performance value

ID	Window type	U-value	SHGC
GEN-04-008a	Double-glazed clear, Timber and Aluminium Frame	0.0	0.00

### Roof window and skylight schedule

Location	ID	Roof window/skylight no.	Area (m²)	Orientation	Outdoor shade	Indoor shade/diffuser
Family Dining	GEN-04-008a	1	0.7	N	None	No
Family Dining	GEN-04-008a	2	0.7	N	None	No

### External wall type

ID	Wall type	Insulation	Wall wrap or foil
EW-1	Concrete Block	No insulation	No
EW-2	EPS Cavity Panel Direct Fix	Foil, Anti-glare one side + Bulk Insulation R2.5	Yes

### External wall schedule

Location	ID	Width (mm)	Height (mm)	Orientation	Fixed Shade	Eaves (mm)
Garage 1	EW-1	11095	2500	N	No	0
Garage 1	EW-1	6195	2500	E	No	0
Store	EW-1	4395	2500	E	No	0
Store	EW-1	11095	2500	S	No	0
Void 1	EW-1	5195	2500	W	No	0
Void 1	EW-1	4095	2500	N	No	0
Void 2	EW-1	4095	2500	S	No	0
Void 2	EW-1	5395	2500	W	No	0
Entry Stairs Up	EW-2	1895	2700	E	No	1700
Master	EW-2	3995	2700	S	No	0
Master	EW-2	5295	2700	W	No	3800
Ensuite Master	EW-2	1590	2700	S	No	0
Bedroom 2	EW-2	5295	2700	W	No	3800
Bedroom 2	EW-2	3995	2700	N	No	0
Ensuite 2	EW-2	1690	2700	N	No	0
Bedroom 3	EW-2	3190	2700	S	No	0
Bedroom 4	EW-2	700	2700	N	No	7300
Bedroom 4	EW-2	3300	2700	E	No	1000
Bedroom 4	EW-2	4095	2700	S	No	0
Bath Grd	EW-2	2990	2700	S	No	0
Laund Bath	EW-2	3095	2700	N	No	0
Kitchen/Living	EW-2	5200	3275	E	No	1800
Kitchen/Living	EW-2	3800	2700	S	No	0
Kitchen/Living	EW-2	200	2700	W	No	14800
Kitchen/Living	EW-2	5100	2700	S	No	200
Kitchen/Living	EW-2	200	2700	E	No	10700
Kitchen/Living	EW-2	6300	2700	S	No	0
Kitchen/Living	EW-2	5195	3275	W	No	3400
Kitchen/Living	EW-2	6400	2700	N	No	700

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0003720075**

Certificate Date:

**26 Mar 2019**

★ Star rating:

**5.5**



## Building features continued

Family Dining	EW-2	5395	2700	W	No	3400
Family Dining	EW-2	8800	2700	N	No	700

## Internal wall type

Wall type	Area (m²)	Insulation	Wall wrap or foil
IW-1 - Cavity wall, direct fix plasterboard, single gap	245.0	No insulation	No
IW-2 - Brick, multi plaster layers	54.0	No Insulation	No

## Floors

Location	Construction	Area (m²)	Sub floor ventilation	Added insulation	Covering
Garage 1	Concrete Slab on Ground 200mm	68.0	None	No Insulation	Bare
Store	Concrete Slab on Ground 200mm	48.1	None	No Insulation	Bare
Void 1	Concrete Slab on Ground 200mm	20.9	None	No Insulation	Bare
Void 2	Concrete Slab on Ground 200mm	21.7	None	No Insulation	Bare
Entry Stairs Up/Garage 1	Timber Above Plasterboard 19mm	5.0		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Entry Stairs Up/Store	Timber Above Plasterboard 19mm	6.8		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Bed Hall/Garage 1	Timber Above Plasterboard 19mm	7.2		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Bed Hall/Store	Timber Above Plasterboard 19mm	3.8		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Master/Garage 1	Timber Above Plasterboard 19mm	0.9		Bulk Insulation R2.5	Carpet 10mm
Master/Store	Timber Above Plasterboard 19mm	1.1		Bulk Insulation R2.5	Carpet 10mm
Master/Void 2	Timber Above Plasterboard 19mm	20.9		Bulk Insulation R2.5	Carpet 10mm
Ensuite Master/Store	Timber Above Plasterboard 19mm	4.6		Bulk Insulation R2.5	Ceramic Tiles 8mm
Bedroom 2/Garage	Timber Above Plasterboard 19mm	1.9		Bulk Insulation R2.5	Carpet 10mm
Bedroom 2/Void 1	Timber Above Plasterboard 19mm	20.5		Bulk Insulation R2.5	Carpet 10mm
Ensuite 2/Garage 1	Timber Above Plasterboard 19mm	5.1		Bulk Insulation R2.5	Ceramic Tiles 8mm
Bedroom 3/Store	Timber Above Plasterboard 19mm	11.2		Bulk Insulation R2.5	Carpet 10mm
Bedroom 4/Store	Timber Above Plasterboard 19mm	9.8		Bulk Insulation R2.5	Carpet 10mm
Bedroom 4	Suspended Timber Floor 19mm	2.3	Open	Bulk Insulation in Contact with Floor R2.5	Carpet 10mm
Bath Grd/Store	Timber Above Plasterboard	7.2		Bulk Insulation	Ceramic Tiles

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0003720075**

Certificate Date:

**26 Mar 2019**

★ Star rating:

**5.5**



## Building features continued

	19mm		R2.5	8mm
Laund Bath/Garage 1	Timber Above Plasterboard 19mm	10.2	Bulk Insulation R2.5	Ceramic Tiles 8mm
Powder/Store	Timber Above Plasterboard 19mm	2.0	Bulk Insulation R2.5	Ceramic Tiles 8mm
Cloak/Garage 1	Timber Above Plasterboard 19mm	1.0	Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Linen/Garage 1	Timber Above Plasterboard 19mm	1.2	Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Kitchen/Living/Entry Stairs Up	Timber Above Plasterboard 200mm	12.1	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Kitchen/Living/Bed Hall	Timber Above Plasterboard 200mm	5.8	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Kitchen/Living/Master	Timber Above Plasterboard 200mm	22.8	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Kitchen/Living/Ensuite Master	Timber Above Plasterboard 200mm	5.3	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Kitchen/Living/Bed room 3	Timber Above Plasterboard 200mm	11.1	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Kitchen/Living/Bed room 4	Timber Above Plasterboard 200mm	10.0	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Kitchen/Living/Bath Grd	Timber Above Plasterboard 200mm	7.1	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Kitchen/Living/Powder	Timber Above Plasterboard 200mm	2.3	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Kitchen/Living/Cloak	Timber Above Plasterboard 200mm	1.2	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Family Dining/Bed Hall	Timber Above Plasterboard 200mm	5.9	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Family Dining/Master	Timber Above Plasterboard 200mm	0.5	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Family Dining/Bedroom 2	Timber Above Plasterboard 200mm	23.1	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Family Dining/Ensuite 2	Timber Above Plasterboard 200mm	5.7	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Family Dining/Laund Bath	Timber Above Plasterboard 200mm	10.4	Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Family Dining/Linen	Timber Above Plasterboard 200mm	1.4	Bulk Insulation R1	Cork Tiles or Parquetry 8mm

## Ceiling type

Location	Construction	Added insulation	Roof space above
Garage 1	Plasterboard	No insulation	No
Garage 1	Timber Above Plasterboard	Bulk Insulation R2.5	No
Store	Timber Above Plasterboard	Bulk Insulation R2.5	No
Void 1	Timber Above Plasterboard	Bulk Insulation R2.5	No
Void 2	Timber Above Plasterboard	Bulk Insulation R2.5	No
Entry Stairs Up	Timber Above Plasterboard	Bulk Insulation	No

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0003720075**

Certificate Date:

**26 Mar 2019**

★ Star rating:

**5.5**



## Building features continued

		R1	
Bed Hall	Timber Above Plasterboard	Bulk Insulation R1	No
Master	Timber Above Plasterboard	Bulk Insulation R1	No
Ensuite Master	Timber Above Plasterboard	Bulk Insulation R1	No
Bedroom 2	Timber Above Plasterboard	Bulk Insulation R1	No
Ensuite 2	Timber Above Plasterboard	Bulk Insulation R1	No
Bedroom 3	Plasterboard	Bulk Insulation R3	No
Bedroom 3	Timber Above Plasterboard	Bulk Insulation R1	No
Bedroom 4	Plasterboard	Bulk Insulation R3	No
Bedroom 4	Timber Above Plasterboard	Bulk Insulation R1	No
Bath Grd	Timber Above Plasterboard	Bulk Insulation R1	No
Laund Bath	Timber Above Plasterboard	Bulk Insulation R1	No
Powder	Timber Above Plasterboard	Bulk Insulation R1	No
Cloak	Timber Above Plasterboard	Bulk Insulation R1	No
Linen	Timber Above Plasterboard	Bulk Insulation R1	No
Kitchen/Living	Plasterboard	Bulk Insulation R3	No
Family Dining	Plasterboard	Bulk Insulation R3	No

## Ceiling penetrations

Location	Number	Type	Diameter (mm)	Sealed/unsealed
Kitchen/Living	1	Chimneys	0	Sealed
Family Dining	1	Chimneys	0	Sealed

## Ceiling fans

Location	Number	Diameter (mm)
None Present		

## Roof type

Construction	Added insulation	Roof colour
Corrugated Iron	No Insulation, Only an Air Gap	Medium

## Nationwide House Energy Rating Scheme\* Certificate

Certificate number: **0003720075**

Certificate Date:

**26 Mar 2019**

★ Star rating:

**5.5**



### Building features continued

Corrugated Iron

Bulk, Reflective  
Side Down, Anti-  
glare Up R1 Medium

Waterproofing Membrane

Bulk, Reflective  
Side Down, Anti-  
glare Up R1 Medium



# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0003720075

Certificate Date: 26 Mar 2019

★ Star rating: 5.5



## Additional information

## Explanatory notes

### About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

### General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in 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)