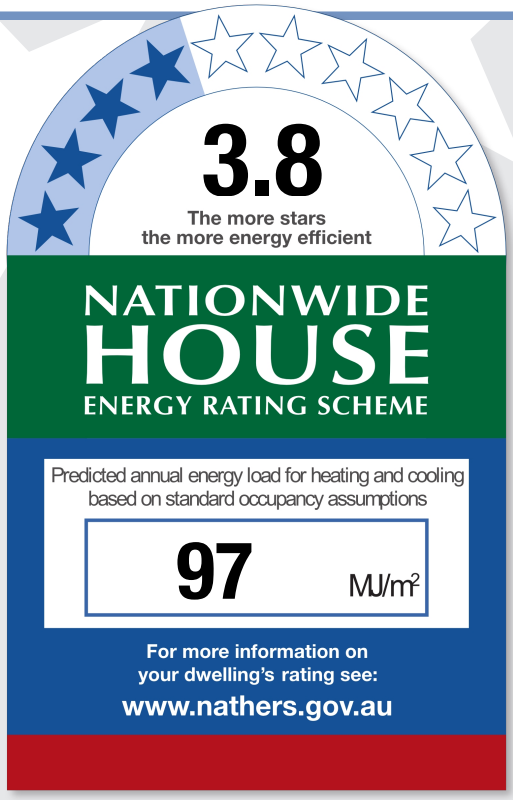
# Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0000416685 Certificate Date: 23 Jun 2016 ★Star rating: 3.8

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: | VIC/BDAV/12/1469 |
| Name: | Craig Crowther |
| Organisation: | Insight Energy |
| Email: | info@insightenergy.com.au |
| Phone: | 02 8188 6777 |
| Declaration of interest: | The Assessor has provided design advice to the Applicant |
| Software: | BERS Pro v4.3.0.1 (3.13) |
| AAO: | BDAV |




# Overview

## Dwelling details

| | | | |
|---|---|---|---|
| Street: | Unit Granny Flat, 13A Ocean Road | | |
| Suburb: | PALM BEACH | | |
| State: | NSW | Postcode: | 2108 |
| Type: | New Dwelling | NCC Class: | 1A |
| | | NatHERS climate zone: | 56 |
| Lot/DP number: | Not known | Exposure: | Suburban |

## Key construction and insulation materials

(see following pages for details)

| | |
|---|---|
| Construction: | Brick Veneer<br>Corrugated Iron<br>Concrete Slab on Ground |
| Insulation: | R2.0 wall insulation<br>R3.0 ceiling insulation<br>No floor insulation |
| Glazing: | ALM-004-01 A Aluminium B DG Air Fill Clear-Clear |

## Ceiling penetrations

(see following pages for details)

| | |
|---|---|
| Sealed: | 4 |
| Unsealed: | 0 |
| TOTAL:** | 4 |

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceded 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: LED

## Net floor area (m²)

| | |
|---|---|
| Conditioned: | 57 |
| Unconditioned: | 0 |
| Garage: | 0 |
| TOTAL: | 57 |

## Annual thermal performance loads (MJ/m²)

| | |
|---|---|
| Heating: | 32 |
| Cooling: | 65 |
| TOTAL: | 97 |

## 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.

## Plan documents

| | |
|---|---|
| Plan ref/date: | Project No. 1408, Issue P2 dated 17/6/2016 |
| Prepared by: | MacCormick Associates, Drawn by CS |

* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

# 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 | 4.80 | 0.59 |
| ALM-002-01 A | ALM-002-01 A Aluminium B SG Clear | 6.70 | 0.70 |

## Window schedule

| Location | Window ID | Window no. | Height (mm) | Width (mm) | Orientation | Outdoor shade |
|---|---|---|---|---|---|---|
| Kitchen/Living | ALM-004-01 A | n/a | 1590 | 2900 | N | No Shading |
| Kitchen/Living | ALM-004-01 A | n/a | 3540 | 7250 | E | Vertical Louvres, Horizontal Blades |
| Kitchen/Living | ALM-004-01 A | n/a | 3540 | 3810 | S | No Shading |
| Ensuite | ALM-002-01 A | n/a | 1600 | 1000 | W | No Shading |
| Bedroom 1 | ALM-004-01 A | n/a | 1600 | 3200 | W | No Shading |

## Roof window and skylight type and performance value

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

## Roof window and skylight schedule

| Location | ID | Roof window/skylight no. | Area (m²) | Orientation | Outdoor shade | Indoor shade/diffuser |
|---|---|---|---|---|---|---|
| Bedroom 1 | GEN-04-008a | 1 | 6.7 | E | None | No |

## External wall type

| ID | Wall type | Insulation | Wall wrap or foil |
|---|---|---|---|
| EW-1 | Brick Veneer | Foil Anti-glare one side and Reflective other of the Bulk Insulation R2 | Yes |

## External wall schedule

| Location | ID | Width (mm) | Height (mm) | Orientation | Fixed Shade | Eaves (mm) |
|---|---|---|---|---|---|---|
| Kitchen/Living | EW-1 | 3600 | 3540 | N | No | 250 |
| Kitchen/Living | EW-1 | 7500 | 3540 | E | No | 1950 |
| Kitchen/Living | EW-1 | 4200 | 3540 | S | No | 500 |
| Kitchen/Living | EW-1 | 200 | 3900 | W | No | 4500 |
| Kitchen/Living | EW-1 | 500 | 3900 | W | No | 3550 |
| WC | EW-1 | 300 | 4030 | N | No | 5125 |
| WC | EW-1 | 300 | 4030 | S | No | 1400 |
| WC | EW-1 | 1100 | 4030 | W | No | 100 |
| Ensuite | EW-1 | 1155 | 4030 | W | No | 400 |
| Ensuite | EW-1 | 4085 | 3900 | S | No | 453 |
| Bedroom 1 | EW-1 | 4355 | 4030 | W | No | 400 |
| Bedroom 1 | EW-1 | 3600 | 3540 | N | No | 900 |
| Bedroom 1 | EW-1 | 600 | 3540 | W | No | 4000 |
| Bedroom 1 | EW-1 | 1055 | 3540 | N | No | 525 |

## Building features continued

### Internal wall type

| Wall type | Area (m²) | Insulation | Wall wrap or foil |
|---|---|---|---|
| IW-1 - Cavity wall, plasterboard on battens one side | 51 | No insulation | No |
| IW-2 - Single Skin Brick | 5 | No insulation | No |

### Floors

| Location | Construction | Area (m²) | Sub floor ventilation | Added insulation | Covering |
|---|---|---|---|---|---|
| Kitchen/Living | Concrete Slab on Ground | 29.1 | None | No Insulation | Ceramic Tiles 8mm |
| Laundry | Concrete Slab on Ground | 0.5 | None | No Insulation | Ceramic Tiles 8mm |
| WC | Concrete Slab on Ground | 1.5 | None | No Insulation | Cork Tiles or Parquetry 8mm |
| Ensuite | Concrete Slab on Ground | 6.8 | None | No Insulation | Cork Tiles or Parquetry 8mm |
| Bedroom 1 | Concrete Slab on Ground | 19.0 | None | No Insulation | Cork Tiles or Parquetry 8mm |

### Ceiling type

| Location | Construction | Added insulation | Roof space above |
|---|---|---|---|
| Kitchen/Living | Plasterboard | Bulk Insulation R3 | Yes |
| Laundry | Plasterboard | Bulk Insulation R3 | Yes |
| WC | Plasterboard | Bulk Insulation R3 | Yes |
| Ensuite | Plasterboard | Bulk Insulation R3 | Yes |
| Bedroom 1 | Plasterboard | Bulk Insulation R3 | Yes |

### Ceiling penetrations

| Location | Number | Type | Diameter (mm) | Sealed/unsealed |
|---|---|---|---|---|
| Kitchen/Living | 2 | Downlights - LED | 150 | Sealed |
| Kitchen/Living | 1 | Exhaust Fans | 300 | Sealed |
| Ensuite | 1 | Exhaust Fans | 300 | Sealed |

### Ceiling fans

| Location | Number | Diameter (mm) |
|---|---|---|
| Kitchen/Living | 1 | 1200 |
| Bedroom 1 | 1 | 1200 |

## Building features continued

### Roof type

| Construction | Added insulation | Roof colour |
|---|---|---|
| Corrugated Iron | Bulk, Reflective Side Down, Anti-glare Up R1.3 | Medium |

# Nationwide House Energy Rating Scheme* Certificate

Certificate number: 0000416685 **Certificate Date:** 23 Jun 2016 ★Star rating: 3.8

## Additional information

Granny Flat

# 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

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

* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au