# Nationwide House Energy Rating Scheme\* Certificate

#### Certificate number: 0004249330

Certificate Date: 03 Oct 2019

★ Star rating: 5.4



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/12/1441   |
|--------------------------|--|
| Name:                    | lan Fry  |
| Organisation:            | Frys Energywise  |
| Email:                   | comply@frysenergywise.com.au                             |
| Phone:                   | 02 9899 2825   |
| Declaration of interest: | The Assessor has provided design advice to the Applicant |
| Software:                | BERS Pro v4.3.0.2d (3.13)                                |

**BDAV** AAO:

# Overview

## **Dwelling details**

| Street: | 259 West Wilchard | Road          |      |
|---------|-------------------|---------------|------|
| Suburb: | Castlereagh       |               |      |
| State:  | NSW               | Postcode:     | 2749 |
| Type:   | New Dwelling      | NCC Class:    | 1A   |
| 1900.   |                   | NatHERS       |      |
| Lot/DP  |                   | climate zone: | 28   |
| number: | 1/1181666         | Exposure:     | Open |

# Key construction and insulation materials

(see following pages for details)

| Construction: | Brick Veneer   |
|---------------|--|
|               | Corrugated Iron<br>Concrete Slab on Ground                             |
| Insulation:   | R2.7 wall insulation   |
|               | R6.0 ceiling insulation  |
| Glazing:      | No floor insulation<br>VAN-004-08 A SERIES 525 LOUVRE<br>WINDOW SG 6ET |

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

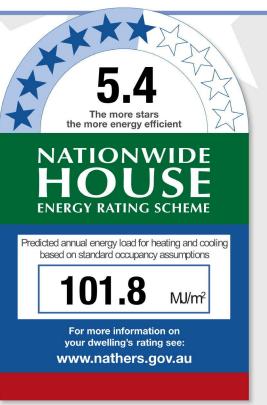
|                                | <b>V</b> /     |                       |          |
|--------------------------------|----------------|-----------------------|----------|
| Conditioned:<br>Unconditioned: | 445.0<br>162.0 | performanc<br>(MJ/m²) | ce loads |
| Garage:                        | 124.0          | Heating:              | 55.3     |
| TOTAL:                         | 607.0          | Cooling:              | 46.6     |
|                                |                | TOTAL:                | 101.8    |

Annual thermal

# **Plan documents**

Version: 1, Version Date: 02/12/2019

Plan ref/date: 1707 Prepared by: **Distinct Innovations** 



| Ceiling penetr<br>(see following pages |             | **NOTE: This total is the<br>maximum number of ceiling<br>penetrations allowed to a   |
|--|-------------|---|
| Sealed:<br>Unsealed:<br>TOTAL:**       | 6<br>0<br>6 | ceiling (under a roof) for this<br>certificate. If this number is<br>exceded in construction then<br>this certificate IS NOT VALID<br>and a new certificate is required.<br>Loss of ceiling insulation for the<br>penetrations listed has been<br>taken into account with the rating. |
| Principle downlight                    | type: Unl   | known   |
| Nindow selecti                         | on -        | Scan to access this   |

# 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.

certificate online and confirm this is valid.



| Nationwide House Energy Rating Scheme* Certificate | AT THE T |  |
|--|----------|--|
|  |          |  |

Certificate Date:

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5.4

# **Building features**

# Window type and performance value

| Window ID    | Window type  | U-value | SHGC |
|--------------|--|---------|------|
| VAN-004-08 A | VAN-004-08 A SERIES 525 LOUVRE WINDOW SG 6ET                                   | 4.5     | 0.54 |
| VAN-002-33 A | VAN-002-33 A 613 Magnum Al Double Hung DG 638CPClr/8/4                         | 4.2     | 0.43 |
| AWS-003-11 A | AWS-003-11 A 502/504 AI Sliding Window DG 638CPClr/8/4                         | 3.8     | 0.48 |
| AWS-001-01 A | AWS-001-01 A 502/504 Al Sliding Window SG 3Clr                                 | 6.4     | 0.73 |
| AWS-035-41 B | AWS-035-41 B 726 Thermal Heart Awning Window DG 638CPCIr/12/6                  | 3.0     | 0.39 |
| AWS-037-27 B | AWS-037-27 B 731 Thermal Heart Sliding Door DG 638CPCIr/12/6                   | 2.7     | 0.45 |
| AWS-067-13 A | AWS-067-13 A RES SERIES 516 FIXED WINDOW DG<br>5_LightBridge_ClrPrvSI_638-10-4 | 2.2     | 0.39 |
| AWS-005-01 A | AWS-005-01 A 514 Al Double Hung Window SG 3Clr                                 | 6.2     | 0.74 |

# Window schedule

| Location       | Window ID    | Window no. | Height (mm) |      | Orientation | Outdoor shade |
|----------------|--------------|------------|-------------|------|-------------|---------------|
| Robe 4         | VAN-004-08 A | n/a        | 2100        | 600  | E           | No Shading    |
| Bed 4          | VAN-002-33 A | n/a        | 2100        | 2400 | Ν           | No Shading    |
| Bed 4          | VAN-002-33 A | n/a        | 2100        | 1800 | E           | No Shading    |
| Robe 3         | VAN-004-08 A | n/a        | 2100        | 600  | S           | No Shading    |
| Bed 3          | AWS-003-11 A | n/a        | 1200        | 1800 | S           | No Shading    |
| Bath           | AWS-001-01 A | n/a        | 1200        | 2000 | S           | No Shading    |
| Bed 2          | AWS-003-11 A | n/a        | 1200        | 1800 | S           | No Shading    |
| Robe 2         | VAN-004-08 A | n/a        | 2100        | 600  | S           | No Shading    |
| Ensuite        | AWS-035-41 B | n/a        | 1200        | 1200 | S           | No Shading    |
| Guest          | AWS-037-27 B | n/a        | 2700        | 3300 | W           | No Shading    |
| Theatre        | AWS-037-27 B | n/a        | 2700        | 3300 | W           | No Shading    |
| Rumpus         | AWS-067-13 A | n/a        | 2400        | 3800 | N           | No Shading    |
| Rumpus         | VAN-004-08 A | n/a        | 300         | 3800 | Ν           | No Shading    |
| Robe 6         | VAN-004-08 A | n/a        | 2100        | 600  | N           | No Shading    |
| Bed 6          | AWS-003-11 A | n/a        | 1200        | 1800 | N           | No Shading    |
| Bath 2         | AWS-001-01 A | n/a        | 1200        | 1800 | Ν           | No Shading    |
| Bed 5          | AWS-003-11 A | n/a        | 1200        | 1800 | N           | No Shading    |
| Robe 5         | VAN-004-08 A | n/a        | 2100        | 600  | N           | No Shading    |
| Kitchen Living | AWS-037-27 B | n/a        | 2700        | 6500 | W           | No Shading    |
| Kitchen Living | VAN-004-08 A | n/a        | 300         | 6800 | N           | No Shading    |
| Kitchen Living | AWS-067-13 A | n/a        | 2400        | 6800 | N           | No Shading    |
| Kitchen Living | AWS-067-13 A | n/a        | 500         | 4600 | E           | No Shading    |
| Kitchen Living | VAN-002-33 A | n/a        | 2700        | 900  | S           | No Shading    |
| Kitchen Living | VAN-002-33 A | n/a        | 2700        | 900  | S           | No Shading    |
| Kitchen Living | VAN-002-33 A | n/a        | 2700        | 900  | S           | No Shading    |
| Kitchen Living | AWS-037-27 B | n/a        | 2700        | 3000 | E           | No Shading    |
| Kitchen Living | VAN-004-08 A | n/a        | 300         | 3000 | W           | No Shading    |
| Kitchen Living | AWS-067-13 A | n/a        | 2400        | 3000 | W           | No Shading    |
| Butler         | AWS-067-13 A | n/a        | 500         | 2000 | E           | No Shading    |
| oyer Hall      | AWS-067-13 A | n/a        | 2400        | 4700 | W           | No Shading    |
| oyer Hall      | VAN-004-08 A | n/a        | 300         | 4700 | W           | No Shading    |
| oyer Hall      | AWS-067-13 A | n/a        | 2400        | 6800 | S           | No Shading    |
| oyer Hall      | VAN-004-08 A | n/a        | 300         | 6800 | S           | No Shading    |
| Foyer Hall     | AWS-067-13 A | n/a        | 2700        | 900  | Ν           | No Shading    |

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Document Set ID: 8947654 Version: 1, Version Date: 02/12/2019

| Nationwide H     | Nationwide House Energy Rating Scheme* Certificate |                  |               |          |                |                         |  |  |  |
|------------------|--|------------------|---------------|----------|----------------|-------------------------|--|--|--|
| Certificate numb | ber: 0004249330                                    | Certificate Date | : <b>03 C</b> | Oct 2019 | ★ Star rating: | 5.4 NATIONWIDE<br>HOUSE |  |  |  |
| Building feat    | ures continued                                     |                  |               |          |                |                         |  |  |  |
| Master Bed       | AWS-037-27 B                                       | n/a              | 2700          | 6000     | W              | No Shading              |  |  |  |
| Master Bed       | VAN-002-33 A                                       | n/a              | 2700          | 600      | Ν              | No Shading              |  |  |  |
| Master Bed       | VAN-002-33 A                                       | n/a              | 2700          | 600      | Ν              | No Shading              |  |  |  |
| Master Bed       | AWS-067-13 A                                       | n/a              | 2700          | 2400     | S              | No Shading              |  |  |  |
| Ensuite          | VAN-002-33 A                                       | n/a              | 2700          | 600      | Ν              | No Shading              |  |  |  |
| PDR              | AWS-005-01 A                                       | n/a              | 2700          | 600      | Ν              | No Shading              |  |  |  |

2700

2000

Ν

No Shading

| Roof windov  | v and skylight | t type and performance         | e value   |             |               |                          |
|--------------|----------------|--------------------------------|-----------|-------------|---------------|--------------------------|
| ID           | Window t       | уре                            |           |             | U-value       | SHGC                     |
| None Present |                |                                |           |             |               |                          |
| Roof window  | v and skylight | t schedule                     |           |             |               |                          |
| Location     | ID             | Roof<br>window/skylight<br>no. | Area (m²) | Orientation | Outdoor shade | Indoor<br>shade/diffuser |
| None Present |                |                                |           |             |               |                          |

| External wa | ll type           |            |                 |             |             |                   |  |
|-------------|-------------------|------------|-----------------|-------------|-------------|-------------------|--|
| ID          | Wall type         |            | Insulation      |             | Wa          | Wall wrap or foil |  |
| EW-1        | Brick Veneer      |            | Bulk Insulation | n R2.7      | Nc          | )                 |  |
| EW-2        | Brick Veneer      |            | No insulation   |             | No          | )                 |  |
| EW-3        | Single Skin Brick |            | No insulation   |             | No          | )                 |  |
| External wa | II schedule       |            |                 |             |             |                   |  |
| Location    | ID                | Width (mm) | Height (mm)     | Orientation | Fixed Shade | Eaves<br>(mm)     |  |
| Robe 4      | EW-1              | 4095       | 3000            | S           | No          | 600               |  |
| Robe 4      | EW-1              | 1695       | 3000            | E           | No          | 600               |  |
| Bed 4       | EW-1              | 2500       | 3000            | Ν           | No          | 600               |  |
| Bed 4       | EW-1              | 4095       | 3000            | E           | No          | 600               |  |
| Robe 3      | EW-1              | 1690       | 3000            | S           | No          | 600               |  |
| Bed 3       | EW-1              | 3590       | 3000            | S           | No          | 600               |  |
| Bath        | EW-1              | 2390       | 3000            | S           | No          | 600               |  |
| Bed 2       | EW-1              | 3790       | 3000            | S           | No          | 600               |  |
| Robe 2      | EW-1              | 1590       | 3000            | S           | No          | 600               |  |
| Laundry     | EW-1              | 2790       | 3000            | S           | No          | 600               |  |
| Linen       | EW-1              | 1590       | 3000            | S           | No          | 600               |  |
| Ensuite     | EW-1              | 1590       | 3000            | S           | No          | 600               |  |
| Robe        | EW-1              | 3495       | 3000            | S           | No          | 600               |  |
| Robe        | EW-1              | 1595       | 3000            | W           | No          | 2100              |  |
| Guest       | EW-1              | 3490       | 3000            | W           | No          | 2100              |  |
| Theatre     | EW-1              | 5195       | 3000            | W           | No          | 2100              |  |
| Theatre     | EW-1              | 5095       | 3000            | Ν           | No          | 600               |  |
| Rumpus      | EW-1              | 4190       | 3000            | Ν           | No          | 600               |  |
| Robe 6      | EW-1              | 1690       | 3000            | Ν           | No          | 600               |  |

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Study

VAN-002-33 A

n/a

| Certificate number | 0004249330   | Certificate Date: | 03 C | Oct 2019 | ★ Star rating: | 5.4 | NATIONW<br>HOU  |
|--------------------|--------------|-------------------|------|----------|----------------|-----|-----------------|
|                    |              |                   |      |          |                |     | ENERGY RATING S |
| Building featur    | es continued |                   |      |          |                |     |                 |
| Bed 6              | EW-1         | 3690              | 3000 | N        | No             | 600 | )               |
| Bath 2             | EW-1         | 2190              | 3000 | Ν        | No             | 600 | )               |
| Bed 5              | EW-1         | 3690              | 3000 | Ν        | No             | 600 | )               |
| Robe 5             | EW-1         | 1595              | 3000 | Ν        | No             | 600 | )               |
| Robe 5             | EW-1         | 4495              | 3000 | E        | No             | 600 | )               |
| Kitchen Living     | EW-1         | 7400              | 3000 | W        | No             | 510 | )0              |
| Kitchen Living     | EW-1         | 7200              | 3000 | Ν        | No             | 600 | )               |
| Kitchen Living     | EW-1         | 6995              | 3000 | E        | No             | 600 | )               |
| Kitchen Living     | EW-1         | 7200              | 3000 | S        | No             | 600 | )               |
| Kitchen Living     | EW-1         | 3495              | 3000 | E        | No             | 600 | )               |
| Kitchen Living     | EW-1         | 3495              | 3000 | W        | No             | 600 | )               |
| Kitchen Living     | EW-1         | 5800              | 3000 | S        | No             | 100 | )               |
| Butler             | EW-1         | 2990              | 3000 | E        | No             | 600 | )               |
| Foyer Hall         | EW-1         | 5295              | 3000 | W        | No             | 600 | )               |
| Foyer Hall         | EW-1         | 10595             | 3000 | S        | No             | 100 | )               |
| Foyer Hall         | EW-1         | 2895              | 3000 | Ν        | No             | 930 | 00              |
| Master Bed         | EW-1         | 6100              | 3000 | W        | No             | 140 | )0              |
| Master Bed         | EW-1         | 4595              | 3000 | Ν        | No             | 120 | )0              |
| Master Bed         | EW-1         | 4595              | 3000 | S        | No             | 100 | )               |
| Dressing           | EW-1         | 2090              | 3000 | Ν        | No             | 120 | )0              |
| Ensuite            | EW-1         | 2495              | 3000 | Ν        | No             | 120 | )0              |
| Ensuite            | EW-1         | 1000              | 3000 | E        | No             | 192 | 200             |
| PDR                | EW-1         | 1790              | 3000 | Ν        | No             | 600 | )               |
| Study              | EW-1         | 3895              | 3000 | Ν        | No             | 600 | )               |
| Study              | EW-1         | 3695              | 3000 | E        | No             | 135 | 500             |
| Garage             | EW-2         | 8100              | 3170 | W        | No             | 192 | 200             |
| Garage             | EW-3         | 6600              | 3170 | Ν        | No             | 120 | )0              |
| Garage             | EW-2         | 1000              | 3170 | Е        | No             | 100 | )               |
| Garage             | EW-3         | 3900              | 3170 | Ν        | No             | 100 | )               |
| Garage             | EW-2         | 11200             | 3170 | Е        | No             | 100 | )               |
| Garage             | EW-3         | 5300              | 3170 | S        | No             | 100 | )               |

| Internal wall type                                      |                        |                                  |                   |  |
|---|------------------------|----------------------------------|-------------------|--|
| Wall type   | Area (m <sup>2</sup> ) | Insulation                       | Wall wrap or foil |  |
| IW-1 - Cavity wall, direct fix plasterboard, single gap | 365.0                  | No insulation                    | No                |  |
| IW-2 - Cavity wall, direct fix plasterboard, single gap | 159.0                  | Bulk Insulation, No Air Gap R2.7 | No                |  |

| Floors   |                               |           |                       |                  |                                |
|----------|-------------------------------|-----------|-----------------------|------------------|--------------------------------|
| Location | Construction                  | Area (m²) | Sub floor ventilation | Added insulation | Covering                       |
| Robe 4   | Concrete Slab on Ground 100mm | 6.7       | None                  | No Insulation    | Carpet+Rubber<br>Underlay 18mm |
| Bed 4    | Concrete Slab on Ground 100mm | 16.4      | None                  | No Insulation    | Carpet+Rubber<br>Underlay 18mm |

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# Nationwide House Energy Rating Scheme\* Certificate

Certificate number: 0004249330

Certificate Date:

03 Oct 2019

★ Star rating:



5.4

| Daha 2         | Concercto Clob on Crownd      | 7.0   | Mana | No Insulation | Comet Dubber                   |
|----------------|-------------------------------|-------|------|---------------|--------------------------------|
| Robe 3         | Concrete Slab on Ground 100mm | 7.2   | None | No Insulation | Carpet+Rubber<br>Underlay 18mn |
| Bed 3          | Concrete Slab on Ground 100mm | 15.6  | None | No Insulation | Carpet+Rubber<br>Underlay 18mn |
| Bath           | Concrete Slab on Ground 100mm | 10.3  | None | No Insulation | Ceramic Tiles<br>8mm           |
| Bed 2          | Concrete Slab on Ground 100mm | 16.5  | None | No Insulation | Carpet+Rubber<br>Underlay 18mn |
| Robe 2         | Concrete Slab on Ground 100mm | 6.7   | None | No Insulation | Carpet+Rubber<br>Underlay 18mn |
| Laundry        | Concrete Slab on Ground 100mm | 12.1  | None | No Insulation | Ceramic Tiles<br>8mm           |
| Linen          | Concrete Slab on Ground 100mm | 5.7   | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Ensuite        | Concrete Slab on Ground 100mm | 5.7   | None | No Insulation | Ceramic Tiles<br>8mm           |
| Robe           | Concrete Slab on Ground 100mm | 5.1   | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Guest          | Concrete Slab on Ground 100mm | 12.0  | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Theatre        | Concrete Slab on Ground 100mm | 26.1  | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Rumpus         | Concrete Slab on Ground 100mm | 18.3  | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Hall           | Concrete Slab on Ground 100mm | 32.6  | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Robe 6         | Concrete Slab on Ground 100mm | 7.2   | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Bed 6          | Concrete Slab on Ground 100mm | 16.1  | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Bath 2         | Concrete Slab on Ground 100mm | 9.4   | None | No Insulation | Ceramic Tiles<br>8mm           |
| Bed 5          | Concrete Slab on Ground 100mm | 16.1  | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Robe 5         | Concrete Slab on Ground 100mm | 6.9   | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Kitchen Living | Concrete Slab on Ground 100mm | 120.0 | None | No Insulation | 80/20 Carpet<br>10mm/Ceramic   |
| Butler         | Concrete Slab on Ground 100mm | 10.3  | None | No Insulation | Ceramic Tiles<br>8mm           |
| Foyer Hall     | Concrete Slab on Ground 100mm | 31.3  | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Master Bed     | Concrete Slab on Ground 100mm | 27.8  | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Dressing       | Concrete Slab on Ground 100mm | 9.4   | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Ensuite        | Concrete Slab on Ground 100mm | 11.3  | None | No Insulation | Ceramic Tiles<br>8mm           |
| PDR            | Concrete Slab on Ground 100mm | 6.2   | None | No Insulation | Ceramic Tiles<br>8mm           |
| Study          | Concrete Slab on Ground 100mm | 14.1  | None | No Insulation | Carpet+Rubbe<br>Underlay 18mr  |
| Garage         | Concrete Slab on Ground 100mm | 123.8 | None | No Insulation | Bare                           |

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# **Building features continued**

| _ocation       | Construction | Added                         | Roof space   |
|----------------|--------------|-------------------------------|--------------|
| Robe 4         | Plasterboard | insulation<br>Bulk Insulation | above<br>Yes |
| Bed 4          | Plasterboard | R6<br>Bulk Insulation         | Yes          |
| Robe 3         | Plasterboard | R6<br>Bulk Insulation<br>R6   | Yes          |
| Bed 3          | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Bath           | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Bed 2          | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Robe 2         | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Laundry        | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Linen          | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Ensuite        | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Robe           | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Guest          | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Theatre        | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Rumpus         | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Hall           | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Robe 6         | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Bed 6          | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Bath 2         | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Bed 5          | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Robe 5         | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Kitchen Living | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Butler         | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Foyer Hall     | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Master Bed     | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Dressing       | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| Ensuite        | Plasterboard | Bulk Insulation<br>R6         | Yes          |
| PDR            | Plasterboard | Bulk Insulation               | Yes          |

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| Nationwide      | House Energy R  | ating Scheme* Co  | ertificate  |                       |     | A TRANSPORT                                 |
|-----------------|-----------------|-------------------|-------------|-----------------------|-----|---|
| Certificate num | ber: 0004249330 | Certificate Date: | 03 Oct 2019 | ★ Star rating:        | 5.4 | NATIONWIDE<br>HOUSE<br>ENERCY RATING SCHEME |
| Building fea    | tures continued |                   |             |                       |     |   |
|                 |                 |                   |             | R6                    |     |   |
| Study           | Plasterboard    |                   |             | Bulk Insulation<br>R6 | Yes |   |
| Garage          | Plasterboard    |                   |             | No insulation         | Yes |   |

# **Ceiling penetrations**

| Location | Number | Туре         | Diameter (mm) | Sealed/unsealed |
|----------|--------|--------------|---------------|-----------------|
| Bath     | 1      | Exhaust Fans | 300           | Sealed          |
| Laundry  | 1      | Exhaust Fans | 300           | Sealed          |
| Ensuite  | 1      | Exhaust Fans | 300           | Sealed          |
| Bath 2   | 1      | Exhaust Fans | 300           | Sealed          |
| Ensuite  | 1      | Exhaust Fans | 300           | Sealed          |
| PDR      | 1      | Exhaust Fans | 300           | Sealed          |

| Ceiling fans |        |               |  |
|--------------|--------|---------------|--|
| Location     | Number | Diameter (mm) |  |
| None Present |        |               |  |

| Roof type       |   |  |  |
|-----------------|---|--|--|
| Construction    | Added Roof colour insulation                                    |  |  |
| Corrugated Iron | Bulk, Reflective Dark<br>Side Down, No<br>Air Gap Above<br>R1.3 |  |  |

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

# Nationwide House Energy Rating Scheme\* Certificate

Certificate number:

**Certificate Date:** 

```
★ Star rating:
```



## **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

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 Document Set ID: 8947654

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