NCC 2022



ABCB NCC 2022 VOLUME TWO

BASIX Thermal Comfort Energy Efficiency Assessment

Accredited Star Rating

7

REFERENCE **607463 v3.0**

SITE ADDRESS

Lot 15 (#15) Raven Circuit WARRIEWOOD 2102

DWELLING TYPE

Double Storey

COMMISSIONED BY

McDonald Jones Homes

ASSESSMENT DATE **24/10/2025**

Energy Advance Australia Pty. Ltd.
NatHERS Accreditation Number: DMN/14/1662
34 Dellamarta Road WANGARA 6065
PO Box 1436 WANGARA DC 6947
ACN: 60 9332014 | 1300 850 228
energy@energyadvance.com.au

1300 850 228







THE SUMMARY

Address Lot 15 (#15) Raven Circuit WARRIEWOOD 2102

Dwelling Type Double Storey Façade Facing

State **New South Wales** East

Site Exposure Suburban Garage Side (viewed from the front)

Ground Floor Type Concrete Slab-on-Ground Right-Hand Side

NatHERS Climate Zone 56 Modelled Wall Colour

FirstRate 5 Engine: Multiple Wall Colours: See Schedule/Drawings Chenath Engine 3.22

Certificate Number JX1C6S90G2-01 **Modelled Roof Colour**

Accredited Star Rating Solar Absorptance: Medium roof colour 7

Modelled Glazing Frame Colour

Glazing Frame Colour: Light

Conditioned Floor Area (m²) 145.20 Unconditioned Floor (m²) 11.90

Total (m²) 157.10

| | Area (m2) | Allowance (W/m2) | Total Maximum Watts |
|----------------------------|-----------|------------------|---------------------|
| Class 1 Total Area | 178.96 | 5.0 | 894.8 |
| Class 10a Total Area | 20.95 | 3.0 | 62.9 |
| Total Outdoor Areas | 26.12 | 4.0 | 104.5 |

Maximum Ceiling Maximum Allowance Maximum Penetration (m2) Insulation Penetration 0.50% 0.89

If approved fireproof downlight covers, which can be fully covered by insulation, are specified and noted on the electrical plan by the building designer or architect or if IC4-rated downlights are installed, then there is no need to allow for the ceiling penetration.

ASSESSMENT CALCULATIONS & SOFTWARE RESULTS

| | Target (MJ/m².pa) | Proposed (MJ/m².pa) | Efficienc | y Benchmark |
|----------|-------------------|---------------------|-----------|-------------|
| Heating: | 25.0 | 18.8 | Pass: | 28.3% |
| Cooling: | 18.0 | 11.2 | Pass: | 46.6% |
| Total: | 43.0 | 30.0 | | |





THE ANALYSIS

This dwelling exceeds minimum thermal comfort compliance targets by 30.2%

Cooling the main areas in this home each year uses as much energy as walking around the Earth 1.4 times, or watching Netflix continuously for approximately 0.5 years.





Heating the main areas in this home uses the same amount of energy every year as watching Netflix continuously for approximately 0.9 years, or walking around the Earth 2.4 times.

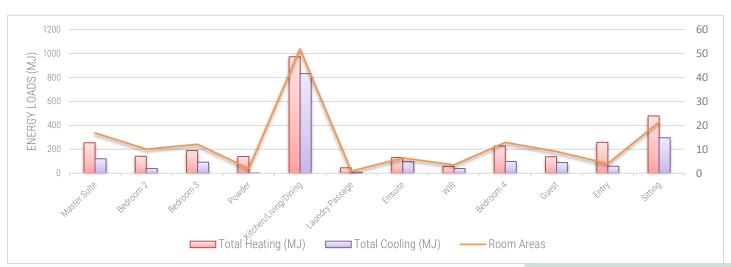
Room-by-Room Energy Use Analysis

This graph shows the annual energy needed to heat and cool each room to a comfortable temperature.

The taller the bar means the room requires either more warmth to stay cozy during cold weather, or energy to remain cool when it's hot outside.

The line represents what would be considered good energy use for the size of each room. When bars rise above this line, it means the room is using more energy than expected, highlighting opportunities for energy-efficient improvements.

The goal is shorter bars, indicating your home is comfortably heated and cooled without excessive energy use. Rooms with the tallest bars are key areas to focus on for energy-saving upgrades.







Lot 15 (#15) Raven Circuit WARRIEWOOD 2102

THE ANALYSIS

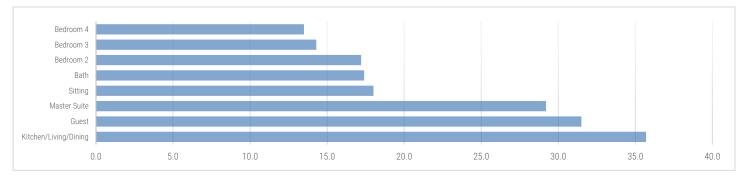
Understanding the Window Ratio

The ratio below shows the percentage of the dwelling's exterior that's made up of glass compared to the floor area. Ideally, a lower percentage contributes to better thermal efficiency, reducing energy loss and lowering energy bills.

This home's fairly high glazing-to-floor area ratio means that there is considerable heat loss, through the glass (conductance) in the colder months but also unwanted heat gain in the hot months. This results in high heating and cooling costs throughout the year. Considering size reductions could significantly improve energy efficiency and help manage costs more effectively.

OPTIMAL: Glazing sizes are fantastic for the best thermal efficiency EFFICIENT: Glazing ratio is a good balance between glass sizes and house performance FI FVATED: Savings can be made by looking at reducing some glazing CAUTIONARY: Glass is the biggest contributor to a low rating. Look at reducing glazing sizes

Top 8 Window to Floor Area Ratios per Room



Mapping Out Glass: Orientation Analysis

The chart maps out the distribution of glass, showing their orientation around the house as percentages of the total floor area.

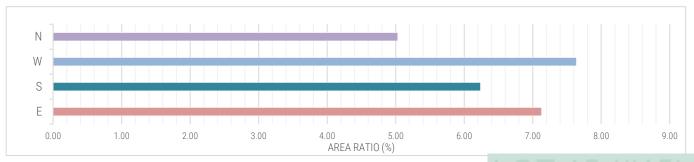
NORTH: Increase the proportion of minimally shaded glass facing north: between 10-15%

EAST: East-facing glass should be kept to under 8%.

SOUTH: South-facing glass should be reduced as much as possible; aiming for 5% or less.

WEST: Aim to limit glass on the west to less than 5% of the floor area to prevent excess heat gain.

These are guides to help enhance your home's thermal efficiency. For detailed shading strategies, refer to the floor plans.





energy@energyadvance.com.au

ACN: 60 9332014 | 1300 850 228

Energy Advance Australia Pty Ltd | 34 Dellamarta Road WANGARA 6065



Lot 15 (#15) Raven Circuit WARRIEWOOD 2102

Reference Number: 607463_v3.0

THE SPECIFICATIONS

Walls

| CONSTRUCTION TYPE AND INSULATION | FRAME TYPE | LOCATION | THERMAL BREAK? |
|--|------------|----------|----------------|
| STF TBK Brick Veneer R2.2 Insulation No Wrap | Steel | External | Yes |
| STF NTB INT Plasterboard Stud Wall R2.2 Insulation | Steel | Internal | No |
| STF TBK INT Plasterboard Stud Wall R2.2 Insulation | Steel | Internal | Yes |
| OTH Double Leaf Brick Wall 110mm Uninsulated | None | External | None |
| STF TBK Framed R2.2 Insulation VP Wrap | Steel | External | Yes |

Refer to Plans/Drawings for the location of external walls.

ADDITIONAL NOTES

Internal wall insulation: Throughout all internal walls

Multiple Wall Colours: See Schedule/Drawings

Roof and Ceiling

| CONSTRUCTION TYPE | CEILING INSULATION (R) | SARKING | THERMAL BREAK? | BLANKET (R) |
|------------------------------------|------------------------|---------|-----------------|-------------|
| Ceiling with Floor Above | None | No | No | None |
| Metal Roof OR Tiled Roof w/Sarking | 7.0 | No | Yes (min: RO.2) | 1.8 |

Solar Absorptance: Medium roof colour

ADDITIONAL NOTES

Ceiling Insulation to the House and Garage area

 $\operatorname{\mathsf{Min}} \ensuremath{\ensuremath{\varnothing}}$ 1,200mm ceiling fans added to the Bedrooms only

Floor

| CONSTRUCTION TYPE | VENTILATION | FLOOR INSUL (R) | SLAB EDGE (R) | FLOOR AREAS (m ²) |
|--|-------------|-----------------|---------------|-------------------------------|
| 85mm Concrete 225mm Waffle | Enclosed | Integrated | None | 90.4 |
| Framed Suspended Floor R4.1 Insulation | Elevated | 4.1 | None | 10.3 |
| Framed Suspended Floor R4.1 Insulation | Enclosed | 4.1 | None | 81.5 |

ADDITIONAL NOTES

Glazing

| | Glazing Frame Colour: Light | | | | | | | |
|--------------|-----------------------------|----------------|-----------------------|-------------------|-----------------------|---------------------------|--|--|
| WERS CODE* | CHARACTERISTIC | TYPE | U _w -VALUE | SHGC _w | AREA (m ²⁾ | AS-BUILT GLAZING TYPES | | |
| DOW-005-01 A | Standard Double Glazing | Awning Window | 3.90 | 0.58 | 9.34 | Locations as per drawings | | |
| TIM-001-01 W | Standard Single Glazing | Hinged Door | 5.40 | 0.56 | 2.85 | Locations as per drawings | | |
| DOW-022-03 B | Standard Double Glazing | Sliding Window | 2.89 | 0.64 | 12.36 | Locations as per drawings | | |
| JLN-009-11 B | Standard Double Glazing | Fixed Window | 3.04 | 0.67 | 6.32 | Locations as per drawings | | |
| GJA-071-01 A | Standard Double Glazing | Sliding Door | 3.98 | 0.63 | 10.10 | Locations as per drawings | | |

This double storey has been modelled with restricted window openings (%) as per NCC Protection of Openable Windows Advisory Note





THE REGULATIONS

13.7.1 Application of Part 13.7

(1) This Part applies to (a) a Class 1 building, (b) a Class 10a building, and (c) a Class 10b swimming pool associated with a Class 1 or 10a building. (2) Part 13.7 must be applied as directed in H6D2(2).

13.7.2 Insulation of services

Thermal insulation for central heating water piping and heating and cooling ductwork must—

(a)be protected against the effects of weather and sunlight, and (b)be able to withstand the temperatures within the piping or ductwork; and (c) use thermal insulation material by AS/NZS 4859.1.

13.7.3 Central heating water piping

- (1) Central heating water piping that is not within a conditioned space must be thermally insulated to achieve the minimum material R-Values as set out in (2) to (6).
- (2) Internal piping including- (a)flow and return piping that is- (i)within an unventilated wall space or
- (ii) within an internal floor between storeys; or (iii) between ceiling insulation and a ceiling and
- (b)heated water piping encased within a concrete floor slab (except that which is part of a floor heating system), must, in all climate zones, have a minimum material R-Value of 0.4.
- (3) Piping located within a ventilated wall space, an enclosed building subfloor or a roof space, including—
- (a)flow and return piping; and (b)cold water supply piping within 500 mm of the connection to the central water heating system; and (c)relief valve piping within 500 mm of the connection to the central water heating system, must have a minimum material R-Value by (5).
- (4) Piping located outside the building or in an unenclosed building subfloor or roof space, including—
- (a)flow and return piping; and (b)cold water supply piping within 500 mm of the connection to the central water heating system; and (c)relief valve piping within 500 mm of the connection to the central water heating system, must have a minimum material R-Value by (6).
- (5) Piping referred to in (3) must have a minimum material R-Value of (a)in climate zones 1, 2, 3 and 5 0.6; and
- (b)in climate zones 4, 6 and 7 0.9; and (c)in climate zone 8 1.3.
- (6)Piping referred to in (4) must have a minimum material R-value of—
- (a)in climate zones 1, 2, 3 and 5 0.6; and (b)in climate zones 4, 6 and 7 1.3; and (c) in climate zone 8 1.3.

13.7.4 Heating and cooling ductwork

(1) Heating and cooling ductwork and fittings must-

(a)achieve the material R-Value in (4), and (b)be sealed against air loss— (i)by closing all openings in the surface, joints and seams of ductwork with adhesives, mastics, sealants or gaskets by AS 4254.1 and AS 4254.2 for a Class C seal; or (ii)for flexible ductwork, with a draw band in conjunction with a sealant or adhesive tape.

(2) Duct insulation must— (a) abut adjoining duct insulation to form a continuous barrier and

(b)be installed so that it maintains its position and thickness, other than at flanges and supports; and where located outside the building, under a suspended floor, in an attached Class 10a building or in a roof space— (i)be protected by an outer sleeve of protective sheeting to prevent the insulation becoming damp, and (ii)have the outer protective sleeve sealed with adhesive tape not less than 48 mm wide creating an airtight and waterproof seal.

(3) The requirements of (1) do not apply to heating and cooling ductwork and fittings located within the insulated building envelope including a service riser within the conditioned space, internal floors between storeys and the like.

(4)The material R-Value required by (1)(a) must be determined by the following: (a)In a heating-only system or cooling-only system including an evaporative cooling system— (i)ductwork must have a minimum material R-Value of— (A)in climate zones 1 to 7 — 1.0; and (B)in climate zone 8 — 1.5; and (ii)fittings must have a minimum material R-Value of 0.4.

(b)In a combined heating and refrigerated cooling system— (i)ductwork must have a minimum material R-Value of— (A)in climate zones 1, 3, 4, 6 and 7 — 1.5; and (B)in climate zones 2 and 5 — 1.0; and (C)in climate zone 8 — 1.5; and (ii)fittings must have a minimum material R-Value of 0.4.

(c)For (b)(i), the minimum material R-value required for ductwork may be reduced by 0.5 for combined heating and refrigerated cooling systems in climate zones 1, 3, 4, 6 and 7 if the ducts are— (i)under a suspended floor with an enclosed perimeter; or in a roof space that has an insulation of greater than or equal to R0.5 directly beneath the roofing.





THE REGULATIONS

13.7.5 Electric resistance space heating

An electric resistance space heating system that serves more than one room must have— (a)separate isolating switches for each room and (b)a separate temperature controller and time switch for each group of rooms with common heating needs and (c) power loads of not more than 110 W/m2 for living areas, and 150 W/m2 for bathrooms.

13.7.6 Artificial lighting

(1)The lamp power density or illumination power density of artificial lighting, excluding heaters that emit light, must not exceed the allowance of— (a)5 W/m2 in a Class 1 building and (b)4 W/m2 on a Verandah, balcony or the like attached to a Class 1 building; and (c)3 W/m2 in a Class 10a building associated with a Class 1 building.

- (2) The illumination power density allowance in (1) may be increased by dividing it by the relevant illumination power density adjustment factor for a control device in (6) as applicable.
- (3) When designing the lamp power density or illumination power density, the power of the proposed installation must be used rather than nominal allowances for exposed batten holders or luminaires.
- (4) If halogen lamps are installed, they must be separately switched from fluorescent lamps.
- (5) Artificial lighting around the perimeter of a building must— (a)be controlled by a daylight sensor or (b)have an average light source efficacy of not less than 40 Lumens/W.
- (6) The following illumination power density adjustment factors apply to control devices for artificial lighting:
- (a)Lighting timer for corridor lighting: 0.7. Motion detector —(i)(A) at least 75% of the area of space is controlled by one or more motion detectors; or (b)an area of less than 200 m2 is switched as a block by one or more motion detectors; and (i)0.7, where up to 6 lights are switched as a block by one or more detectors; and (ii)0.55, where up to 2 lights are switched as a block by one or more detectors.
- (c)Manual dimming system where not less than 75% of the space area is controlled by manually operated dimmers: 0.85.
- (d)Programmable dimming system where not less than 75% of the space area is controlled by programmable dimmers: 0.85.
- (e)Dynamic dimming system, with automatic compensation for lumen depreciation, the design lumen depreciation factor is not less than (i)0.9 for fluorescent lights or (ii)0.8 for high-pressure discharge lights.
- (f) Fixed dimming where at least 75% of the area is controlled by fixed dimmers that reduce the overall lighting level and the power consumption of the lighting equal to the % of full power to which the dimmer is set divided by 0.95.
- (g)Daylight sensor and dynamic lighting control device, with dimmed or stepped switching of lights adjacent to windows: (i)Lights within the space adjacent to windows other than roof lights for a distance from the window equal to the depth of the floor at window head height: 0.5. (ii)Lights within the space adjacent to roof lights: 0.6.
- (7) For (6)(c), manual dimming is where lights are controlled by a knob, slider, or other mechanism or where there are pre-selected scenes that are manually selected.
- (8) For (6)(d), programmed dimming is where pre-selected scenes or levels are automatically selected by the time of day, photoelectric cell, or occupancy sensor.
- (9) For (6)(e), dynamic dimming is where the lighting level is varied automatically by a photoelectric cell to either proportionately compensate for the availability of daylight or the lumen depreciation of the lamps.
- (10) For (6)(f), fixed dimming is where lights are controlled to a level, and that level cannot be adjusted by the user.
- (11) For (6)(g)(i) and (ii), the illumination power density adjustment factor is only applied to lights controlled by that item this adjustment factor does not apply to tungsten halogen or other incandescent sources.

13.7.7 Water heater in a heated water supply system

A water heater in a heated water supply system must be designed and installed by Part B2 of NCC Volume Three — Plumbing Code of Australia.

13.7.8 Swimming pool heating and pumping

- (1) Heating for a swimming pool must be by— (a)a solar heater not boosted by electric resistance heating or
- (b)a heater using reclaimed energy, (c)a gas heater, or (d)a heat pump, or (e)a combination of (a) to (d).
- (2) Where some or all of the heating required by (1) is by a gas heater or a heat pump, the swimming pool must have— (a) a cover with a minimum R-Value of 0.05 unless located in a conditioned space and (b) a time switch to control the operation of the heater.
- (3)A time switch must be provided to control the operation of a circulation pump for a swimming pool.
- (4) For the purposes of 13.7.8, a swimming pool does not include a spa pool.

13.7.9 Spa pool heating and pumping

- (1) Heating for a spa pool that shares a water recirculation system with a swimming pool must be by—(a)a solar heater or
- (b)a heater using reclaimed energy or a gas heater, or (d) (e) a combination of (a) to (d).
- (2) Where some or all of the heating required by (1) is by a gas heater or a heat pump, the spa pool must have— (a) a cover and (b) a push button and a time switch to control the operation of the heater.
- (3)A time switch must be provided to control the operation of a circulation pump for a spa pool having a capacity of 680 L or more.





Nationwide House Energy Rating Scheme® NatHERS® Certificate No. JX1C6S90G2-01

Generated on 24 Oct 2025 using FirstRate5: 5.5.5a (3.22)

Property

Address Lot 15 (#15) Raven Circuit WARRIEWOOD,

2102, NSW, 2102

Lot/DP 15 / 271326 **NCC Class*** Class 1a

Floor/all Floors

Type New Home

Plans

Main plan 607463_v3.0

Prepared by McDonald Jones Homes

Construction and environment

Assessed floor area [m²]* Exposure type
Conditioned* 145.2 suburban

Unconditioned* 31 NatHERS climate zone

Total 176.2 56 Mascot AMO

Garage 19.1



Name Claude-Francois Sookloll

Business name Energy Advance

Email energy@energyadvance.com.au

 Phone
 1300 850 228

 Accreditation No.
 DMN/14/1662

Assessor Accrediting Organisation

Design Matters National

Declaration of interest No

NCC Requirements

NCC provisions Volume 2 State/Territory variation Yes

National Construction Code (NCC) requirements

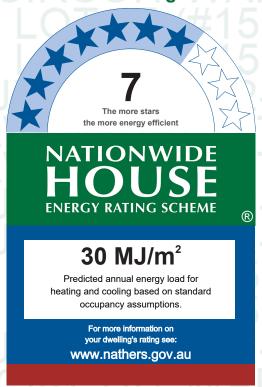
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

Thermal performance star rating



Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

| | Heating | Cooling | | | | |
|---------------|--|---------|--|--|--|--|
| Modelled | 18.8 | 11.2 | | | | |
| Load limits | N/A | N/A | | | | |
| Features dete | pad limits N/A N/A eatures determining load limits | | | | | |

Floor type N/A
(lowest conditioned area)
NCC climate zone 1 or 2 N/A
Outdoor living area N/A

Outdoor living area ceiling fan

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

Verification

To verify this certificate, scan the QR code or visit https://w ww.fr5.com.au/QRCodeLand ing?PublicId=JX1C6S90G2-01 When using either link, ensure you are visiting www.fr5.com.au.



N/A

About the ratings

Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

Heating & Cooling Load Limits

Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

Setting options:

Floor type:

CSOG - Concrete Slab on Ground

SF - Suspended Floor (or a mixture of CSOG and SF)

NA - Not Applicable

NCC climate Zone 1 or 2:

Yes

No

NA - not applicable

Outdoor living area:

Yes

No

NA - not applicable

Outdoor living area ceiling fan:

Yes

No

NA - not applicable



Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

| Certificate check | heck Approval stage | | Construc stage | tion | |
|---|---------------------|--|-------------------|--|-----------------|
| The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked. | Assessor checked | Consent authority/ surveyor checked | hecked | Consent authority/ surveyor checked | Occupancy/other |
| Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist. | Assesso | Consent | Builder checked | Consent | Occupar |
| Genuine certificate check | | | | | |
| Does this Certificate match the one available at the web address or QR code verification link on the front page? | | | | | |
| Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate? | | | | | |
| Thermal performance check | | | | | |
| Windows and glazed doors | | | | | |
| Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate? | | | | | |
| Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate? | | | | | |
| External walls | | | | | |
| Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate? | | | | | |
| Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate? | | | | | |
| Floor | | | | | |
| Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Floor type' table on this certificate? | | | | | |
| Ceiling penetrations* | | | | | |
| Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate? | | | | | |
| Ceiling | | | | | |
| Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate? | | | | | |
| Roof | | | | | |
| Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate? | | | | | |
| Apartment entrance doors (NCC Class 2 assessments only) | | | | | |
| Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate. | | | | | |
| Exposure* | | | | | |
| Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected". | | | | | |
| Heating and cooling load limits* | | | | | |
| Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone? | | | | | |

| | Approval stage | | Construction stage | | | |
|---|------------------|--|--------------------|--|-----------------|--|
| Certificate check Continued | Assessor checked | Consent authority/ surveyor checked | Builder checked | Consent authority/ surveyor checked | Occupancy/other | |
| Additional NCC requirements for thermal performance (not included | in the Na | tHERS a | ssessme | nt) | <u>'</u> | |
| Thermal bridging | ı | ı | 1 | I | ı | |
| Does the dwelling meet the NCC requirement for thermal bridging? | | | | | | |
| Insulation installation method | | | | | | |
| Has the insulation been installed according to the NCC requirements? | | | | | | |
| Building sealing | | | | | | |
| Does the dwelling meet the NCC requirements for Building Sealing? | | | | | | |
| Whole of Home performance check (not applicable if a Whole of Home performance check) | ormance a | ssessmen | t is not con | ducted) | ' | |
| Appliances | | | | | | |
| Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate? | | | | | | |
| Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate? | | | | | | |
| Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate? | | | | | | |
| Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate? | | | | | | |
| Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate? | | | | | | |
| Additional NCC Requirements for Services (not included in the NatHERS assessment) | | | | | | |
| Does the lighting meet the artificial lighting requirements specified in the NCC? | | | | | | |
| Does the hot water system meet the additional requirements specified in the NCC? | | | | | | |
| Provisional values* check | | | | | | |
| Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below? | | | | | | |
| Other NCC requirements | | | | | | |

include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.

Additional notes

BCA Climate Zone 5

Please note, a non-reflective vapour permeable wall wrap has been modelled throughout the external walls of this dwelling

Perimeter insulation has not been included in the modelling of this dwelling

Eaves indicated by the 'Horizontal shading feature* maximum projection (mm)' may not be directly opposing the respective wall (i.e. some eaves may be horizontally offset)

Where applicable, an additional 150mm has been added to the projection of all 'Horizontal shading features & eaves' to account for the Gutter & Fascia Board

JX1C6S90G2-01 NatHERS Certificate

7 Star Rating as of 24 Oct 2025



Please note, restricted window openings (%) have been modelled as per NCC 2022 requirements

Please note, IC/IC-F Class downlights have been modelling to this dwelling

Where applicable, proxy WERS codes may be used to meet U-Value and SHGC limitations while maintaining compliance

Proxy codes refer to performance values from a comparable product when exact test data for the selected window or glazed door is unavailable

The selected window or glazed door must have a U-Value lower than the value indicated, and the SHGC must be within +/-5% of the specified value to comply

Room schedule

| Room | Zone Type | Area [m²] |
|-----------------------|---------------|-----------|
| Guest | bedroom | 9.1 |
| Entry | dayTime | 4.1 |
| Laundry | unconditioned | 3.3 |
| Laundry Passage | dayTime | 0.9 |
| Powder | dayTime | 2 |
| Kitchen/Living/Dining | kitchen | 51.9 |
| Garage | garage | 19.1 |
| Master Suite | bedroom | 16.8 |
| Bedroom 2 | bedroom | 10.1 |
| Bedroom 3 | bedroom | 12.1 |
| Bedroom 4 | bedroom | 12.9 |
| WIR | nightTime | 3.5 |
| Ensuite | nightTime | 6.4 |
| Bath | unconditioned | 8.6 |
| Sitting | living | 21.4 |

Window and glazed door type and performance

Default* windows

| | | | | Substitution tolerance ranges | | |
|--------------|--------------------|---------------------|-------|-------------------------------|------------------|--|
| Window ID | Window description | Maximum U-value* | SHGC* | SHGC lower limit | SHGC upper limit | |
| TIM-001-01 W | Timber A SG Clear | 5.4 | 0.56 | 0.53 | 0.59 | |

Custom* windows

| | | | | Substitution tolerance ranges | | |
|--------------|---|---------------------|-------|-------------------------------|------------------|--|
| Window ID | Window description | Maximum U-value* | SHGC* | SHGC lower limit | SHGC upper limit | |
| DOW-005-01 A | Manor Awning Window DG 3/12/3 | 3.9 | 0.58 | 0.55 | 0.61 | |
| DOW-022-03 B | TB Aluminium Sliding Window DG 4Clr/12Ar/4Clr | 2.89 | 0.64 | 0.61 | 0.67 | |
| JLN-009-11 B | TB - 100mm Fixed Window DG DG DG DG 4mm-12Ar-4mm | 3.04 | 0.67 | 0.64 | 0.7 | |
| GJA-071-01 A | Type 245 Aluminium Sliding Door DG 4/10/4 | 3.98 | 0.63 | 0.6 | 0.66 | |

Window and glazed door schedule

| | | | Height | Width | | | | shading |
|----------|--------------|------------|--------|-------|-------------|-----------|-------------|---------|
| Location | Window ID | Window no. | [mm] | [mm] | Window type | Opening % | Orientation | device* |
| Guest | DOW-005-01 A | W1 | 2360 | 610 | awning | 60.0 | E | No |

| JX1C6S90G2-01 | NatHERS |
|---------------|----------------|
|---------------|----------------|

Certificate

7 Star Rating as of 24 Oct 2025



| Certificate | | | | | | | | IMMIT REPOSITION IN |
|----------------------------|--------------|-----|------|------|----------|-------|---|---------------------|
| Guest | DOW-005-01 A | W2 | 2360 | 610 | awning | 60.0 | E | No |
| Entry | TIM-001-01 W | D1 | 2340 | 920 | casement | 90.0 | Е | No |
| Laundry | TIM-001-01 W | D3 | 847 | 820 | casement | 100.0 | S | No |
| Kitchen/Living/- Dining | DOW-022-03 B | W5 | 1800 | 850 | sliding | 30.0 | S | No |
| Kitchen/Living/- Dining | DOW-022-03 B | W6 | 1800 | 1810 | sliding | 30.0 | S | No |
| Kitchen/Living/- Dining | JLN-009-11 B | W3 | 2360 | 1570 | fixed | 0.0 | W | No |
| Kitchen/Living/- Dining | GJA-071-01 A | D2 | 2400 | 2170 | sliding | 45.0 | N | No |
| Kitchen/Living/- Dining | DOW-022-03 B | W4 | 2360 | 2050 | sliding | 30.0 | W | No |
| Master Suite | GJA-071-01 A | D4 | 2100 | 2328 | sliding | 60.0 | Е | No |
| Bedroom 2 | DOW-005-01 A | W12 | 1200 | 1450 | awning | 45.0 | S | No |
| Bedroom 3 | DOW-005-01 A | W11 | 1200 | 1450 | awning | 45.0 | W | No |
| Bedroom 4 | DOW-005-01 A | W10 | 1200 | 1450 | awning | 45.0 | W | No |
| Ensuite | DOW-005-01 A | W7 | 1457 | 850 | awning | 10.0 | E | No |
| Bath | DOW-022-03 B | W9 | 1029 | 1450 | sliding | 10.0 | N | No |
| Sitting | JLN-009-11 B | W13 | 1800 | 1450 | fixed | 0.0 | S | No |
| Sitting | DOW-022-03 B | W8 | 857 | 1450 | sliding | 45.0 | N | No |
| | | | | | | | | |

Roof window* type and performance value

Default* roof windows

Window ID Window description U-value* SHGC*

Substitution tolerance ranges
SHGC lower limit SHGC upper limit

No Data Available

Custom* roof windows

Window ID Window description U-value* SHGC*

Substitution tolerance ranges

SHGC lower limit SHGC upper limit

No Data Available

Roof window* schedule

Opening Area Width Outdoor Indoor Location Window ID Window no. % [m²] [mm] Orientation shade shade

No Data Available

Skylight* type and performance

 Skylight ID
 Skylight description
 Skylight shaft reflectance

 No Data Available



Skylight* schedule

Skylight shaft Area Orient- Outdoor

Location Skylight ID Skylight No. length [mm] [m²] ation shade Diffuser

No Data Available

External door schedule

| Location | Height [mm] | Width [mm] | Opening % | Orientation |
|----------|-------------|------------|-----------|-------------|
| Laundry | 1493 | 820 | 100.0 | S |
| Garage | 2400 | 2575 | 100.0 | E |

External wall type

| Wall ID | Wall type | Solar absorptance | Wall shade [colour] | Bulk insulation [R-value] | Reflective wall wrap* |
|---------|--|-------------------|------------------------|--|-----------------------|
| 1 | NCC 2022 STANDARD - STEEL TBK - STF TBK Brick Veneer R2.2 Insulation No Wrap | 0.67 | Dark | Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.2) | No |
| 2 | NCC 2022 MISC - OTH Double Leaf Brick Wall 110mm Uninsulated | 0.67 | Dark | | No |
| 3 | NCC 2022 VAPOUR - STEEL TBK - STF TBK Framed R2.2 Insulation VP Wrap | 0.33 | Light | Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.2) | No |
| 4 | NCC 2022 VAPOUR - STEEL TBK - STF TBK Framed R2.2 Insulation VP Wrap | 0.33 | Light | Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.2) | No |

External wall schedule

| | | U a i a b t | Width | | Horizontal shading feature* maximum | Vertical abadina |
|-----------------------|---------|----------------|-------|-------------|-------------------------------------|---------------------------------------|
| Location | Wall ID | Height [mm] | (mm | Orientation | | Vertical shading feature* (yes/no) |
| Guest | 1 | 2745 | 3150 | S | 0 | Yes |
| Guest | 1 | 2745 | 2901 | E | 1465 | Yes |
| Guest | 1 | 2745 | 1470 | N | 1945 | Yes |
| Entry | 1 | 2745 | 1503 | E | 2935 | Yes |
| Laundry | 1 | 2745 | 1715 | S | 0 | Yes |
| Kitchen/Living/Dining | 1 | 2745 | 9535 | S | 0 | Yes |
| Kitchen/Living/Dining | 1 | 2745 | 5420 | N | 0 | Yes |
| Kitchen/Living/Dining | 1 | 2745 | 3006 | W | 2485 | Yes |
| Kitchen/Living/Dining | 1 | 2745 | 2500 | N | 2985 | Yes |
| Kitchen/Living/Dining | 1 | 2745 | 3642 | W | 0 | Yes |
| Garage | 1 | 2815 | 1367 | W | 600 | Yes |
| Garage | 1 | 2815 | 291 | E | 2935 | Yes |
| Garage | 1 | 2815 | 465 | S | 4831 | Yes |
| | | | | | | |

JX1C6S90G2-01 NatHERS

Certificate

7 Star Rating as of 24 Oct 2025



| Garage | 2 | 2815 | 3170 | E | 600 | Yes |
|--------------|---|------|------|---|------|-----|
| Garage | 3 | 2815 | 5550 | N | 0 | Yes |
| Master Suite | 4 | 2595 | 3323 | S | 730 | Yes |
| Master Suite | 4 | 2128 | 372 | S | 730 | Yes |
| Master Suite | 1 | 467 | 372 | S | 730 | No |
| Master Suite | 4 | 2128 | 4861 | Е | 2200 | Yes |
| Master Suite | 1 | 467 | 4861 | Е | 2200 | No |
| Master Suite | 4 | 2128 | 910 | N | 735 | Yes |
| Master Suite | 1 | 467 | 910 | N | 735 | Yes |
| Bedroom 2 | 4 | 2595 | 3580 | S | 730 | Yes |
| Bedroom 3 | 4 | 2595 | 3021 | W | 730 | Yes |
| Bedroom 3 | 4 | 2595 | 3805 | S | 730 | Yes |
| Bedroom 4 | 4 | 2595 | 3552 | W | 730 | Yes |
| Bedroom 4 | 4 | 2595 | 3805 | N | 730 | Yes |
| WIR | 4 | 2595 | 1170 | S | 730 | Yes |
| Ensuite | 4 | 2595 | 1784 | E | 730 | Yes |
| Ensuite | 4 | 2595 | 2577 | N | 730 | Yes |
| Bath | 4 | 2595 | 3720 | N | 730 | Yes |
| Sitting | 4 | 2967 | 2000 | S | 730 | Yes |
| Sitting | 4 | 2595 | 3200 | N | 730 | Yes |
| | | | | | | |

Internal wall type

| Wall ID | Wall type | Area [m²] | Bulk insulation |
|---------|--|-----------|--|
| 1 | NCC 2022 STANDARD - STEEL NTB - STF NTB INT Plasterboard Stud Wall R2.2 Insulation | 148.4 | Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.2) |
| 2 | NCC 2022 STANDARD - STEEL TBK - STF TBK INT Plasterboard Stud Wall R2.2 Insulation | 19.6 | Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.2) |

Floor type

| | | | Sub-floor | Added insulati | |
|-----------------|---|-----------|-------------|----------------|----------|
| Location | Construction | Area [m²] | ventilation | [R-value] | Covering |
| Guest | FLOOR - 85mm Concrete 225mm Waffle | 9.1 | Enclosed | R0.0 | Carpet |
| Entry | FLOOR - 85mm Concrete 225mm Waffle | 4.1 | Enclosed | R0.0 | Tiles |
| Laundry | FLOOR - 85mm Concrete 225mm Waffle | 3.3 | Enclosed | R0.0 | Tiles |
| Laundry Passage | FLOOR - 85mm Concrete 225mm Waffle | 0.9 | Enclosed | R0.0 | Tiles |
| Powder | FLOOR - 85mm Concrete 225mm Waffle | 2 | Enclosed | R0.0 | Tiles |



| Kitchen/Living/D- ining | FLOOR - 85mm Concrete 225mm Waffle | 4.4 | Enclosed | R0.0 | Carpet |
|-------------------------|--|------|----------|------|--------|
| Kitchen/Living/D- ining | FLOOR - 85mm Concrete 225mm Waffle | 47.5 | Enclosed | R0.0 | Tiles |
| Garage | FLOOR - 85mm Concrete 225mm Waffle | 11.7 | Enclosed | R0.0 | none |
| Garage | FLOOR - 85mm Concrete 225mm Waffle | 7.4 | Enclosed | R0.0 | none |
| Master Suite | FLOOR - Framed Suspended Floor R4.1 Insulation | 2.4 | Elevated | R4.1 | Carpet |
| Master Suite | FLOOR - Framed Suspended Floor R4.1 Insulation | 14.3 | Enclosed | R4.1 | Carpet |
| Bedroom 2 | FLOOR - Framed Suspended Floor R4.1 Insulation | 10.1 | Enclosed | R4.1 | Carpet |
| Bedroom 3 | FLOOR - Framed Suspended Floor R4.1 Insulation | 12.1 | Enclosed | R4.1 | Carpet |
| Bedroom 4 | FLOOR - Framed Suspended Floor R4.1 Insulation | 5.3 | Enclosed | R4.1 | Carpet |
| Bedroom 4 | FLOOR - Framed Suspended Floor R4.1 Insulation | 7.6 | Elevated | R4.1 | Carpet |
| WIR | FLOOR - Framed Suspended Floor R4.1 Insulation | 3.5 | Enclosed | R4.1 | Carpet |
| Ensuite | FLOOR - Framed Suspended Floor R4.1 Insulation | 0.3 | Elevated | R4.1 | Carpet |
| Ensuite | FLOOR - Framed Suspended Floor R4.1 Insulation | 6.1 | Enclosed | R4.1 | Tiles |
| Bath | FLOOR - Framed Suspended Floor R4.1 Insulation | 8.6 | Enclosed | R4.1 | Tiles |
| Sitting | FLOOR - Framed Suspended Floor R4.1 Insulation | 21.4 | Enclosed | R4.1 | Carpet |

Ceiling type

| Location | Construction material/type | Bulk insulation R-value [may include edge batt values] | Reflective wrap* |
|----------|--|--|------------------|
| Guest | FLOOR - Framed Suspended Floor R4.´ Insulation | 1 R4.1 | No |



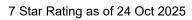
| Entry | FLOOR - Framed Suspended Floor R4.1 Insulation | R4.1 | No |
|-------------------------|--|------|-----|
| Laundry | FLOOR - Framed Suspended Floor R4.1 Insulation | R4.1 | No |
| Laundry Passage | FLOOR - Framed Suspended Floor R4.1 Insulation | R4.1 | No |
| Powder | FLOOR - Framed Suspended Floor R4.1 Insulation | R4.1 | No |
| Kitchen/Living/D- ining | FLOOR - Framed Suspended Floor R4.1 Insulation | R4.1 | No |
| Kitchen/Living/D- ining | FLOOR - Framed Suspended Floor R4.1 Insulation | R4.1 | No |
| Garage | FLOOR - Framed Suspended Floor R4.1 Insulation | R4.1 | No |
| Garage | Plasterboard | R7.0 | Yes |
| Master Suite | Plasterboard | R7.0 | Yes |
| Master Suite | Plasterboard | R7.0 | Yes |
| Bedroom 2 | Plasterboard | R7.0 | Yes |
| Bedroom 3 | Plasterboard | R7.0 | Yes |
| Bedroom 4 | Plasterboard | R7.0 | Yes |
| Bedroom 4 | Plasterboard | R7.0 | Yes |
| WIR | Plasterboard | R7.0 | Yes |
| Ensuite | Plasterboard | R7.0 | Yes |
| Bath | Plasterboard | R7.0 | Yes |
| Sitting | Plasterboard | R7.0 | Yes |

Ceiling penetrations*

| Location | Quantity | Туре | Height [mm] | Width [mm] | Sealed/unsealed |
|-----------------------|----------|--------------|----------------|---------------|-----------------|
| Guest | 2 | Downlights | 0 | 0 | Sealed |
| Entry | 1 | Downlights | 0 | 0 | Sealed |
| Laundry | 1 | Downlights | 0 | 0 | Sealed |
| Laundry Passage | 1 | Downlights | 0 | 0 | Sealed |
| Powder | 1 | Exhaust Fans | 250 | 250 | Sealed |
| Powder | 1 | Downlights | 0 | 0 | Sealed |
| Kitchen/Living/Dining | 1 | Exhaust Fans | 250 | 250 | Sealed |
| Kitchen/Living/Dining | 11 | Downlights | 0 | 0 | Sealed |
| | | | | | |

JX1C6S90G2-01 NatHERS

Certificate





| Master Suite | 4 | Downlights | 0 | 0 | Sealed |
|--------------|---|------------|---|---|--------|
| Bedroom 2 | 3 | Downlights | 0 | 0 | Sealed |
| Bedroom 3 | 3 | Downlights | 0 | 0 | Sealed |
| Bedroom 4 | 4 | Downlights | 0 | 0 | Sealed |
| WIR | 1 | Downlights | 0 | 0 | Sealed |
| Ensuite | 2 | Downlights | 0 | 0 | Sealed |
| Bath | 2 | Downlights | 0 | 0 | Sealed |
| Sitting | 5 | Downlights | 0 | 0 | Sealed |

Ceiling fans

| Location | Quantity | Diameter [mm] |
|--------------|----------|---------------|
| Master Suite | 1 | 1200 |
| Bedroom 2 | 1 | 1200 |
| Bedroom 3 | 1 | 1200 |
| Bedroom 4 | 1 | 1200 |

Roof type

| | Added insulation | า | | |
|-----------------------|------------------|-------------------|---------------------|--|
| Construction | [R-value] | Solar absorptance | Roof shade [colour] | |
| Cont:Attic-Continuous | 1.8 | 0.64 | Dark | |

Thermal bridging schedule for steel frame elements

| | Steel section dimension | s | Steel thickness | Thermal break |
|-------------------------|-------------------------|--------------------|-----------------|---------------|
| Building element | [height x width, mm] | Frame spacing [mm] | [BMT,mm] | [R-value] |
| Internal wall | 90 x 40 | 600 | 0.75 | 0.2 |
| External wall | 90 x 40 | 600 | 0.75 | 0.2 |
| Ceiling | 90 x 40 | 900 | 0.75 | 0.2 |

Appliance schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

Note: A flat assumption of 5W/m2 is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system

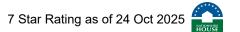
| | | | Minimum efficiency/ | Recommended | |
|--------------------------|--------------------|----------------------------|---------------------|-------------|--|
| Appliance/ system type | Location | Fuel type | performance | capacity | |
| No Whole of Home perform | ance assessment co | nducted for this certifica | ate. | | |

Heating system

| | | | Minimum efficiency/ | Recommended |
|---------------------------|-------------------|-------------------------------|---------------------|-------------|
| Appliance/ system type | Location | Fuel type | performance | capacity |
| No Whole of Home performa | ince assessment c | onducted for this certificate | ·. | |

Hot water system

JX1C6S90G2-01 NatHERS Certificate



Minimum

efficiency/ Hot Water CER Assessed daily

Appliance/ system type Fuel type performance Zone Zone 3 STC load

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

Appliance/ system type

Minimum efficiency/ Recommended performance capacity

No Whole of Home performance assessment conducted for this certificate.

Onsite renewable energy schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System type Orientation System size or generation capacity

No Whole of Home performance assessment conducted for this certificate.

Battery schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System type Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

Explanatory Notes

About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

Glossary

| • | |
|--|--|
| Annual energy load | the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions. |
| AFRC | Australian Fenestration Rating Council |
| Assessed floor area | the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents. |
| Ceiling penetrations | features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts. |
| Conditioned | a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages. |
| СОР | Coefficient of performance |
| Custom windows | windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating. |
| Default windows | windows that are representative of a specific type of window product and whose properties have been derived by statistical methods. |
| EER | Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input |
| Energy use | This is your homes rating without solar or batteries. |
| Energy value | The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard). |
| Entrance door | these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilate corridor in a Class 2 building. |
| Exposure category – expose | d terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). |
| Exposure category – open | terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors). |
| Exposure category – | terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas. |
| suburban | |
| Exposure category – | terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas. |
| protected | |
| Horizontal shading feature | provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels. |
| National Construction Code (NCC) Class | the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au. |
| Net zero home | a home that achieves a net zero energy value*. |
| Opening percentage | the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations. |
| Provisional value | an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au |
| Recommended capacity | this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person. |
| Reflective wrap (also known as foil) | can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties. |
| Roof window | for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser. |
| Shading features | includes neighbouring buildings, fences, and wing walls, but excludes eaves. |
| Solar heat gain coefficient (SHGC) | the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits. |
| Skylight (also known as roof lights) | for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level. |

JX1C6S90G2-01 NatHERS

7 Star Rating as of 24 Oct 2025

| , | HOUSE |
|-------|-------|

| | Make Control School |
|---------------------------|--|
| STCs | Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought |
| | and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory |
| Thermal breaks | are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is |
| | not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene |
| | insulation sheeting, plastic strips or furring channels. |
| U-value | the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. |
| Unconditioned | a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. |
| Vertical shading features | provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy |
| | screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees). |
| Window shading device | a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* |
| - | (eg eaves and balconies) |
| | |