

Nationwide House Energy Rating Scheme®

NatHERS® Certificate No. #HR-HZ4LUN-01

Thermal performance
star rating

Generated on 24 Sep 2024 using Hero 4.1 (Chenath v3.23)

Property

Address 19 Keith Street, Earlwood, NSW, 2206
Lot/DP 10/13500
NCC Class* 1a
Floor/all Floors 1 of 3 floors
Type New

Plans

Main Plan NA
Prepared by 868

Construction and environment

| | |
|----------------------------------|-----------------------------|
| Assessed floor area (m²)* | Exposure Type |
| Conditioned* 394.5 | Suburban |
| Unconditioned* 32.7 | NatHERS climate zone |
| Total 515.8 | 56 - Mascot AMO |
| Garage 88.6 | |



Accredited assessor

Name Paul Gradwell
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Accreditation No. DMN/18/1851
Assessor Accrediting Organisation DMN
Declaration of interest No Conflict of Interest

NCC Requirements

BCA provisions Volume 2
State/Territory variation Yes

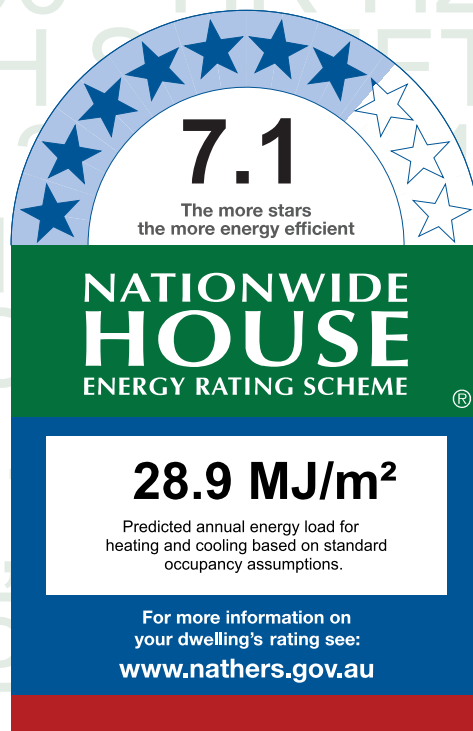
National Construction Code (NCC) requirements

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 J2D2(2)(a) and (3) 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 (MJ/m²)

Limits taken from ABCB Standard 2022

| | Heating | Cooling |
|--------------------|---------|---------|
| Modelled | 14.8 | 14.1 |
| Load limits | 25 | 18 |

Features determining load limits

| | |
|-----------------------------------|------|
| Floor type | |
| (lowest conditioned area) | CSOG |
| NCC climate zone 1 or 2 | N |
| Outdoor living area | N |
| Outdoor living area ceiling fan N | N |

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

<http://www.hero-software.com.au/pdf/HR-HZ4LUN-01>

When using either link,
ensure you are visiting
<http://www.hero-software.com.au>



* Refer to glossary.

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 and 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 Standard: NatHERS heating and cooling load limits* 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.

Certificate check

The checklist covers important items impacting the dwelling's ratings.

It is recommended that the accuracy of the whole certificate is checked.

Note: The boxes indicate when and who should check each item.

It is not mandatory to complete this checklist.

| Approval stage | | Construction stage | | |
|------------------|--|--------------------|--|-----------------|
| Assessor checked | Consent authority/ surveyor checked | Builder checked | Consent authority/ surveyor checked | Occupancy/other |

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?

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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?

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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?

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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.

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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".

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Heating and cooling load limits*

Do the load limits settings (shown on page 1) match what is shown on the NatHERS-stamped plans?

☐☐☐☐☐

* Refer to glossary.

Certificate check

Continued

| Approval stage | | Construction stage | | |
|------------------|--|--------------------|--|-----------------|
| Assessor checked | Consent authority/ surveyor checked | Builder checked | Consent authority/ surveyor checked | Occupancy/other |

Additional NCC requirements for thermal performance (not included in the NatHERS assessment)

Thermal bridging

| | | | | | |
|--|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Does the dwelling meet the NCC requirement for thermal bridging? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|--|--------------------------|--------------------------|--------------------------|--------------------------|

Insulation installation method

| | | | | | |
|--|--|--|--------------------------|--------------------------|--------------------------|
| Has the insulation been installed according to the NCC requirements? | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|--|--|--------------------------|--------------------------|--------------------------|

Building sealing

| | | | | | |
|---|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Does the dwelling meet the NCC requirements for Building Sealing? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--|--------------------------|--------------------------|--------------------------|--------------------------|

Whole of Home performance check (not applicable if a Whole of Home assessment is not conducted)

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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

| | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Does the heating 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

| | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

| | | | | | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

| | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Additional NCC Requirements for Services (not included in the NatHERS assessment)

| | | | | | |
|---|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Does the lighting meet the artificial lighting requirements specified in the NCC? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--|--------------------------|--------------------------|--------------------------|--------------------------|

| | | | | | |
|--|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Does the hot water system meet the additional requirements specified in the NCC? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|--|--------------------------|--------------------------|--------------------------|--------------------------|

Provisional values* check

| | | | | | |
|--|--------------------------|--------------------------|--|--|--|
| Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below? | <input type="checkbox"/> | <input type="checkbox"/> | | | |
|--|--------------------------|--------------------------|--|--|--|

Other NCC requirements

Note: This Certificate only covers the energy efficiency requirements in the NCC. Additional requirements that must also be satisfied include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.

Room schedule

| Room | Zone Type | Area (m ²) |
|----------------|----------------|------------------------|
| Services | Day Time | 23.89 |
| Lift B | Day Time | 2.89 |
| Storage | Unconditioned | 22.44 |
| Hall B | Day Time | 21.15 |
| Garage | Garage | 88.61 |
| Butlers | Day Time | 9.07 |
| Ldry | Day Time | 7.40 |
| Guest Bath | Night Time | 4.62 |
| Guest | Bedroom | 14.15 |
| Lift GF | Day Time | 2.90 |
| WC | Unconditioned | 3.77 |
| Hall GF | Day Time | 26.51 |
| Entry | Day Time | 10.67 |
| Kitchen/Living | Kitchen/Living | 103.86 |
| Lift FF | Day Time | 2.86 |
| Bath FF | Unconditioned | 6.45 |
| Bed 01 | Bedroom | 19.94 |
| Bed 02 | Bedroom | 14.68 |
| ENS Master | Night Time | 15.34 |
| Mini Master | Bedroom | 15.61 |
| ENS Mini | Night Time | 7.10 |
| WIR Mini | Night Time | 4.17 |
| Master | Bedroom | 47.80 |
| Rumpus | Living | 47.30 |



Window and glazed door *type and performance*

Default* windows

| Window ID | Window Description | Maximum U-value* | SHGC* | SHGC substitution tolerance ranges | |
|-----------|--------------------|------------------|-------|------------------------------------|-------------|
| | | | | lower limit | upper limit |
| None | | | | | |

Custom* windows

| Window ID | Window Description | Maximum U-value* | SHGC* | SHGC substitution tolerance ranges | |
|-------------|-------------------------------------|------------------|-------|------------------------------------|-------------|
| | | | | lower limit | upper limit |
| REY-030-002 | Hi Finity 147 Sliding Door Embedded | 2.07 | 0.42 | 0.40 | 0.45 |

Window and glazed door *schedule*

| Location | Window ID | Window no. | Height (mm) | Width (mm) | Window type | Opening % | Orient-ation | Shading device* |
|------------|-------------|------------|-------------|------------|--------------|-----------|--------------|-----------------|
| Bath FF | REY-030-002 | 2.03-H | 3000 | 900 | Fixed | 0 | NW | None |
| Bed 01 | REY-030-002 | 2.02 | 3000 | 4600 | Sliding Door | 10 | SE | None |
| Bed 02 | REY-030-002 | 2.15 | 900 | 4400 | Fixed | 0 | NE | OP-100% |
| Bed 02 | REY-030-002 | 2.01 | 2400 | 3000 | Double Hung | 10 | SE | OP-100% |
| Bed 02 | REY-030-002 | 2.14-H | 3000 | 1000 | Fixed | 0 | NW | OP-100% |
| Butlers | REY-030-002 | 1.07-H | 3600 | 1000 | Fixed | 0 | SE | None |
| ENS Master | REY-030-002 | 2.10 | 3000 | 4100 | Fixed | 0 | NE | None |
| ENS Mini | REY-030-002 | 2.04-H | 3000 | 900 | Fixed | 0 | SE | None |
| Entry | REY-030-002 | 1.14 | 3600 | 900 | Fixed | 0 | NNE | None |
| Entry | REY-030-002 | 1.14 | 3600 | 900 | Fixed | 0 | NNW | None |
| Entry | REY-030-002 | 1.14 | 3600 | 2700 | Fixed | 0 | NW | None |
| Entry | REY-030-002 | 1.01 | 3600 | 400 | Fixed | 0 | SE | None |
| Entry | REY-030-002 | 1.01 | 3600 | 600 | Fixed | 0 | SE | None |
| Guest | REY-030-002 | 1.04 | 3600 | 4400 | Sliding Door | 45 | SE | None |
| Guest Bath | REY-030-002 | 1.05 | 2700 | 1000 | Fixed | 0 | SW | None |
| Hall GF | REY-030-002 | 1.03 | 3600 | 1300 | Fixed | 0 | SE | None |
| Hall GF | REY-030-002 | 1.06 | 3000 | 2000 | Fixed | 0 | SW | None |



Window and glazed door *schedule*

| Location | Window ID | Window no. | Height (mm) | Width (mm) | Window type | Opening % | Orient-ation | Shading device* |
|----------------|-------------|------------|-------------|------------|--------------|-----------|--------------|-----------------|
| Hall GF | REY-030-002 | 1.13 | 3600 | 4900 | Sliding Door | 45 | NE | None |
| Hall GF | REY-030-002 | 1.14 | 3600 | 900 | Fixed | 0 | NE | None |
| Kitchen/Living | REY-030-002 | 1.08 | 3600 | 6100 | Fixed | 0 | NW | None |
| Kitchen/Living | REY-030-002 | 1.11 | 3600 | 4500 | Sliding Door | 45 | NW | None |
| Kitchen/Living | REY-030-002 | 1.12 | 3600 | 4500 | Sliding Door | 45 | SE | None |
| Master | REY-030-002 | 2.07 | 3000 | 7700 | Sliding Door | 60 | NW | None |
| Master | REY-030-002 | 2.08 | 3000 | 750 | Fixed | 0 | NNW | None |
| Master | REY-030-002 | 2.08 | 3000 | 900 | Fixed | 0 | NNE | None |
| Master | REY-030-002 | 2.09 | 3000 | 5100 | Sliding | 10 | NE | None |
| Mini Master | REY-030-002 | 2.06 | 3000 | 1000 | Double Hung | 10 | SW | None |
| Mini Master | REY-030-002 | HL | 600 | 2100 | Fixed | 0 | SW | None |
| Rumpus | REY-030-002 | 2.12-H | 3000 | 3300 | Fixed | 0 | SE | None |
| Rumpus | REY-030-002 | 2.13 | 2200 | 3300 | Fixed | 0 | NE | None |
| Rumpus | REY-030-002 | 2.11 | 1200 | 4900 | Sliding | 60 | NE | None |
| Kitchen/Living | REY-030-002 | 2.05 | 3000 | 3700 | Fixed | 0 | SW | None |
| WC | REY-030-002 | 1.02-H | 3600 | 600 | Fixed | 0 | SW | None |

Roof window *type and performance value*

Default* roof windows

| Window ID | Window Description | Maximum U-value* | SHGC* | SHGC substitution tolerance ranges | |
|-----------|--------------------|------------------|-------|------------------------------------|-------------|
| | | | | lower limit | upper limit |
| None | | | | | |

Custom* roof windows

| Window ID | Window Description | Maximum U-value* | SHGC* | SHGC substitution tolerance ranges | |
|--------------|--|------------------|-------|------------------------------------|-------------|
| | | | | lower limit | upper limit |
| VEL-011-01 W | FS - Fixed Skylight DG 3mm LoE 366 / 8.5mm Argon Gap / 5.36mm Clear La | 2.58 | 0.24 | 0.23 | 0.25 |



Roof window schedule

| Location | Window ID | Window no. | Opening % | Height (mm) | Width (mm) | Orientation | Outdoor shade | Indoor shade |
|----------------|--------------|------------|-----------|-------------|------------|-------------|---------------|--------------|
| Bath FF | VEL-011-01 W | SKYRW 11 | 0 | 1800 | 600 | NE | None | None |
| ENS Mini | VEL-011-01 W | SKYRW 08 | 0 | 1200.00 | 1200.00 | NE | None | None |
| Master | VEL-011-01 W | SKYRW 01 | 0 | 2300 | 1500 | NE | None | None |
| Mini Master | VEL-011-01 W | SKYRW 02 | 0 | 600 | 1800 | NE | None | None |
| Rumpus | VEL-011-01 W | SKYRW 03 | 0 | 600 | 1800 | NE | OP-100% | None |
| Rumpus | VEL-011-01 W | SKYRW 06 | 0 | 600 | 1800 | NE | OP-100% | None |
| Rumpus | VEL-011-01 W | SKYRW 09 | 0 | 2000.00 | 2000.00 | NE | OP-100% | None |
| Rumpus | VEL-011-01 W | SKYRW 10 | 0 | 650 | 650 | NE | OP-100% | None |
| Kitchen/Living | VEL-011-01 W | SKYRW 04 | 0 | 2300 | 3600 | NE | OP-100% | None |
| WIR Mini | VEL-011-01 W | SKYRW 07 | 0 | 1700 | 600 | NE | None | None |

Skylight type and performance

| Skylight ID | Skylight description |
|-------------|----------------------|
| None | |

Skylight schedule

| Location | Skylight ID | Skylight No. | Skylight shaft length (mm) | Area (m²) | Orientation | Outdoor shade | Diffuser | Shaft Reflectance |
|----------|-------------|--------------|----------------------------|-----------|-------------|---------------|----------|-------------------|
| None | | | | | | | | |

External door schedule

| Location | Height (mm) | Width (mm) | Opening % | Orientation |
|----------------|-------------|------------|-----------|-------------|
| Entry | 3600 | 1500 | 90 | SE |
| Garage | 2200 | 3800 | 0 | SE |
| Kitchen/Living | 3600 | 1500 | 90 | NE |
| Kitchen/Living | 3600 | 1500 | 90 | NE |

External wall type

| Wall ID | Wall Type | Solar absorptance | Wall Colour | Bulk insulation (R-value) | Reflective wall wrap* |
|------------------------|---|-------------------|-------------|---------------------------|-----------------------|
| CAV-BRICK-110-110-PB-A | Cavity Brick Wall - 110mm/110mm Plasterboard Internally | 0.50 | Medium | 1.14 | Yes |

* Refer to glossary.

External wall type

| Wall ID | Wall Type | Solar absorptance | Wall Colour | Bulk insulation (R-value) | Reflective wall wrap* |
|------------------------|---|-------------------|-------------|---------------------------|-----------------------|
| CAV-BRICK-110-110-PB-B | Cavity Brick Wall - 110mm/110mm Plasterboard Internally | 0.30 | Light | 0.00 | No |
| CAV-BRICK-110-110-PB-C | Cavity Brick Wall - 110mm/110mm Plasterboard Internally | 0.50 | Medium | 0.00 | No |
| CAV-BRICK-110-110-PB-D | Cavity Brick Wall - 110mm/110mm Plasterboard Internally | 0.30 | Light | 1.14 | Yes |

External wall schedule

| Location | Wall ID | Height (mm) | Width (mm) | Orientation | Horizontal shading feature* projection (mm) | Vertical shading feature |
|------------|------------------------|-------------|------------|-------------|---|--------------------------|
| Bath FF | CAV-BRICK-110-110-PB-D | 3000 | 1798 | SW | 600 | Yes |
| Bath FF | CAV-BRICK-110-110-PB-D | 3000 | 1110 | NW | 600 | Yes |
| Bed 01 | CAV-BRICK-110-110-PB-D | 3000 | 5340 | SE | 1450 | No |
| Bed 01 | CAV-BRICK-110-110-PB-D | 3000 | 3735 | SW | 600 | Yes |
| Bed 01 | CAV-BRICK-110-110-PB-D | 3000 | 1200 | NE | | Yes |
| Bed 02 | CAV-BRICK-110-110-PB-D | 3000 | 4459 | NE | 701 | No |
| Bed 02 | CAV-BRICK-110-110-PB-D | 3000 | 3293 | SE | 1094 | Yes |
| Bed 02 | CAV-BRICK-110-110-PB-D | 3000 | 3293 | NW | 16 | Yes |
| Butlers | CAV-BRICK-110-110-PB-D | 3600 | 3771 | SW | 575 | Yes |
| Butlers | CAV-BRICK-110-110-PB-D | 3600 | 2125 | SE | | Yes |
| ENS Master | CAV-BRICK-110-110-PB-D | 3000 | 4186 | NE | 696 | No |
| ENS Mini | CAV-BRICK-110-110-PB-D | 3000 | 4244 | SW | 600 | Yes |
| ENS Mini | CAV-BRICK-110-110-PB-D | 3000 | 1110 | SE | | Yes |
| Entry | CAV-BRICK-110-110-PB-D | 3600 | 1063 | NNE | 1067 | Yes |
| Entry | CAV-BRICK-110-110-PB-D | 3600 | 916 | NNW | | Yes |
| Entry | CAV-BRICK-110-110-PB-D | 3600 | 2989 | NW | 175 | Yes |
| Entry | CAV-BRICK-110-110-PB-D | 3600 | 1924 | NE | 686 | Yes |
| Entry | CAV-BRICK-110-110-PB-D | 3600 | 3044 | SE | 5114 | Yes |
| Entry | CAV-BRICK-110-110-PB-D | 3600 | 835 | NE | 3730 | Yes |

* Refer to glossary.

External wall *schedule*

| Location | Wall ID | Height (mm) | Width (mm) | Orientation | Horizontal shading feature* projection (mm) | Vertical shading feature |
|----------------|------------------------|-------------|------------|-------------|---|--------------------------|
| Garage | CAV-BRICK-110-110-PB-B | 2700 | 3243 | ESE | | Yes |
| Garage | CAV-BRICK-110-110-PB-B | 2700 | 1001 | ENE | | Yes |
| Garage | CAV-BRICK-110-110-PB-B | 2700 | 3878 | ESE | | Yes |
| Garage | CAV-BRICK-110-110-PB-B | 2700 | 4253 | SE | | No |
| Garage | CAV-BRICK-110-110-PB-B | 2700 | 5441 | SW | | Yes |
| Garage | CAV-BRICK-110-110-PB-C | 2700 | 1372 | NE | | No |
| Garage | CAV-BRICK-110-110-PB-B | 2700 | 4901 | NE | | Yes |
| Garage | CAV-BRICK-110-110-PB-C | 2700 | 3666 | SW | | No |
| Guest | CAV-BRICK-110-110-PB-D | 3600 | 4470 | SE | 3277 | Yes |
| Guest | CAV-BRICK-110-110-PB-D | 3600 | 3166 | SW | 575 | Yes |
| Guest | CAV-BRICK-110-110-PB-D | 3600 | 830 | NE | | Yes |
| Guest Bath | CAV-BRICK-110-110-PB-D | 3600 | 3044 | SW | 575 | Yes |
| Guest Bath | CAV-BRICK-110-110-PB-D | 3600 | 1517 | NW | | Yes |
| Hall B | CAV-BRICK-110-110-PB-A | 2700 | 1364 | NW | | No |
| Hall GF | CAV-BRICK-110-110-PB-D | 3600 | 1538 | SE | 2139 | Yes |
| Hall GF | CAV-BRICK-110-110-PB-D | 3600 | 2118 | SW | | Yes |
| Hall GF | CAV-BRICK-110-110-PB-D | 3600 | 5837 | NE | 5382 | Yes |
| Kitchen/Living | CAV-BRICK-110-110-PB-D | 3600 | 6140 | NW | 2662 | Yes |
| Kitchen/Living | CAV-BRICK-110-110-PB-D | 3600 | 6538 | NE | 5382 | Yes |
| Kitchen/Living | CAV-BRICK-110-110-PB-D | 3600 | 4701 | NW | 9200 | Yes |
| Kitchen/Living | CAV-BRICK-110-110-PB-D | 3600 | 5648 | NE | 681 | Yes |
| Kitchen/Living | CAV-BRICK-110-110-PB-D | 3600 | 4701 | SE | 3473 | Yes |
| Kitchen/Living | CAV-BRICK-110-110-PB-D | 3600 | 12186 | SW | 575 | Yes |
| Ldry | CAV-BRICK-110-110-PB-D | 3600 | 471 | NW | | Yes |
| Master | CAV-BRICK-110-110-PB-D | 3000 | 4091 | SW | 600 | Yes |

* Refer to glossary.

External wall *schedule*

| Location | Wall ID | Height (mm) | Width (mm) | Orient-ation | Horizontal shading feature* projection (mm) | Vertical shading feature |
|----------------|------------------------|-------------|------------|--------------|---|--------------------------|
| Master | CAV-BRICK-110-110-PB-D | 3000 | 7711 | NW | 1300 | No |
| Master | CAV-BRICK-110-110-PB-D | 3000 | 771 | NNW | | No |
| Master | CAV-BRICK-110-110-PB-D | 3000 | 906 | NNE | | No |
| Master | CAV-BRICK-110-110-PB-D | 3000 | 5169 | NE | 696 | No |
| Mini Master | CAV-BRICK-110-110-PB-D | 3000 | 3257 | SW | 600 | Yes |
| Rumpus | CAV-BRICK-110-110-PB-D | 3000 | 3449 | SE | 16 | Yes |
| Rumpus | CAV-BRICK-110-110-PB-D | 3000 | 3886 | NE | | Yes |
| Rumpus | CAV-BRICK-110-110-PB-D | 3000 | 3557 | SW | | Yes |
| Rumpus | CAV-BRICK-110-110-PB-D | 3000 | 4973 | NE | 696 | No |
| Services | CAV-BRICK-110-110-PB-A | 2700 | 4552 | NW | | No |
| Services | CAV-BRICK-110-110-PB-A | 2700 | 5882 | NE | | No |
| Storage | CAV-BRICK-110-110-PB-A | 2700 | 7169 | SW | | No |
| Storage | CAV-BRICK-110-110-PB-A | 2700 | 4602 | NW | | No |
| Kitchen/Living | CAV-BRICK-110-110-PB-D | 3000 | 3728 | SW | 600 | Yes |
| WC | CAV-BRICK-110-110-PB-D | 3600 | 699 | E | | Yes |
| WC | CAV-BRICK-110-110-PB-D | 3600 | 1322 | ESE | 1975 | Yes |
| WC | CAV-BRICK-110-110-PB-D | 3600 | 959 | SW | 1327 | Yes |
| WC | CAV-BRICK-110-110-PB-D | 3600 | 1720 | NE | 3730 | Yes |

Internal wall *type*

| Wall ID | Wall Type | Area (m ²) | Bulk insulation |
|---------------------------|---------------------------------|------------------------|-----------------|
| INT-CONCRETE-PLASTERBOARD | Internal Concrete Wall | 57.8 | 0.00 |
| INT-PB | Internal Plasterboard Stud Wall | 257.2 | 0.00 |
| INT-PB | Internal Plasterboard Stud Wall | 28.9 | 2.50 |

Floor *type*

| Location | Construction | Area (m ²) | Sub-floor ventilation | Added insulation (R-value) | Covering |
|----------|--------------|------------------------|-----------------------|----------------------------|----------|
|----------|--------------|------------------------|-----------------------|----------------------------|----------|

Floor type

| Location | Construction | Area (m ²) | Sub-floor ventilation | Added insulation (R-value) | Covering |
|----------------|--|------------------------|-----------------------|----------------------------|---------------|
| Bath FF | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 6.4 | N/A | 0.00 | Tile (8mm) |
| Bed 01 | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 18.7 | N/A | 0.00 | Timber (12mm) |
| Bed 01 | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 1.4 | N/A | 1.10 | Timber (12mm) |
| Bed 02 | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 9.6 | N/A | 0.00 | Timber (12mm) |
| Bed 02 | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 5.1 | N/A | 1.10 | Timber (12mm) |
| Butlers | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 9.1 | N/A | 0.00 | Timber (12mm) |
| ENS Master | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 15.3 | N/A | 0.00 | Tile (8mm) |
| ENS Mini | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 7.2 | N/A | 0.00 | Tile (8mm) |
| Entry | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 0.7 | N/A | 0.00 | Timber (12mm) |
| Entry | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 10.0 | N/A | 2.50 | Timber (12mm) |
| Garage | CSOG-100: Concrete Slab on Ground (100mm) | 88.6 | N/A | 0.00 | Exposed |
| Guest | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 14.2 | N/A | 2.50 | Timber (12mm) |
| Guest Bath | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 0.9 | N/A | 0.00 | Tile (8mm) |
| Guest Bath | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 3.7 | N/A | 2.50 | Tile (8mm) |
| Hall B | CSOG-100: Concrete Slab on Ground (100mm) | 21.2 | N/A | 2.30 | Exposed |
| Hall GF | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 18.9 | N/A | 0.00 | Timber (12mm) |
| Hall GF | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 7.5 | N/A | 2.50 | Timber (12mm) |
| Kitchen/Living | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 4.3 | N/A | 0.00 | Timber (12mm) |
| Kitchen/Living | CSOG-100: Concrete Slab on Ground (100mm) | 99.6 | N/A | 2.30 | Timber (12mm) |
| Ldry | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 0.5 | N/A | 0.00 | Tile (8mm) |
| Ldry | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 6.8 | N/A | 2.50 | Tile (8mm) |
| Lift B | CSOG-100: Concrete Slab on Ground (100mm) | 2.9 | N/A | 2.30 | Exposed |
| Lift FF | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 2.9 | N/A | 0.00 | Exposed |
| Lift GF | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 2.9 | N/A | 0.00 | Exposed |

Floor type

| Location | Construction | Area (m ²) | Sub-floor ventilation | Added insulation (R-value) | Covering |
|-------------|--|------------------------|-----------------------|----------------------------|---------------|
| Master | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 23.5 | N/A | 0.00 | Timber (12mm) |
| Master | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 24.3 | N/A | 1.10 | Timber (12mm) |
| Mini Master | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 15.6 | N/A | 0.00 | Timber (12mm) |
| Rumpus | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 34.8 | N/A | 0.00 | Timber (12mm) |
| Rumpus | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 12.5 | N/A | 1.10 | Timber (12mm) |
| Services | CSOG-100: Concrete Slab on Ground (100mm) | 23.9 | N/A | 2.30 | Exposed |
| Storage | CSOG-100: Concrete Slab on Ground (100mm) | 22.4 | N/A | 2.30 | Exposed |
| WC | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 3.8 | N/A | 2.50 | Tile (8mm) |
| WIR Mini | SUSP-CONC-150: Suspended Concrete Slab Floor (150mm) | 4.1 | N/A | 0.00 | Timber (12mm) |

Ceiling type

| Location | Construction | Bulk insulation (R-value) | Reflective wrap* |
|----------------|---|---------------------------|------------------|
| Bath FF | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Bed 01 | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Bed 02 | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Butlers | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| ENS Master | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| ENS Mini | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Entry | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Garage | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Guest | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Guest Bath | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Hall B | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Kitchen/Living | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Ldry | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |

* Refer to glossary.

Ceiling type

| Location | Construction | Bulk insulation (R-value) | Reflective wrap* |
|-------------|---|---------------------------|------------------|
| Lift FF | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Master | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Mini Master | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Rumpus | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Services | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| Storage | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| WC | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |
| WIR Mini | SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | No |

Ceiling penetrations*

| Location | Quantity | Type | Diameter (mm) | Sealed /unsealed |
|------------|----------|-------------|---------------|------------------|
| Bath FF | 3 | Downlight | 150 | Sealed |
| Bath FF | 1 | Exhaust Fan | 250 | Unsealed |
| Bed 01 | 8 | Downlight | 150 | Sealed |
| Bed 02 | 6 | Downlight | 150 | Sealed |
| Butlers | 4 | Downlight | 150 | Sealed |
| ENS Master | 6 | Downlight | 150 | Sealed |
| ENS Master | 1 | Exhaust Fan | 250 | Unsealed |
| ENS Mini | 3 | Downlight | 150 | Sealed |
| ENS Mini | 1 | Exhaust Fan | 250 | Unsealed |
| Entry | 4 | Downlight | 150 | Sealed |
| Guest | 4 | Downlight | 150 | Sealed |
| Guest Bath | 1 | Downlight | 150 | Sealed |
| Guest Bath | 1 | Exhaust Fan | 250 | Unsealed |
| Hall B | 8 | Downlight | 150 | Sealed |
| Hall GF | 11 | Downlight | 150 | Sealed |

* Refer to glossary.

Ceiling penetrations*

| Location | Quantity | Type | Diameter (mm) | Sealed /unsealed |
|----------------|----------|-------------|---------------|------------------|
| Kitchen/Living | 6 | Downlight | 150 | Sealed |
| Kitchen/Living | 1 | Exhaust Fan | 250 | Sealed |
| Ldry | 3 | Downlight | 150 | Sealed |
| Ldry | 1 | Exhaust Fan | 250 | Unsealed |
| Lift B | 1 | Downlight | 150 | Sealed |
| Lift FF | 1 | Downlight | 150 | Sealed |
| Lift GF | 1 | Downlight | 150 | Sealed |
| Master | 19 | Downlight | 150 | Sealed |
| Mini Master | 6 | Downlight | 150 | Sealed |
| Rumpus | 19 | Downlight | 150 | Sealed |
| Services | 8 | Downlight | 150 | Sealed |
| Storage | 3 | Downlight | 150 | Sealed |
| Void | 4 | Downlight | 150 | Sealed |
| WC | 1 | Downlight | 150 | Sealed |
| WC | 1 | Exhaust Fan | 250 | Unsealed |
| WIR Mini | 2 | Downlight | 150 | Sealed |

Ceiling fans

| Location | Quantity | Diameter (mm) |
|----------------|----------|---------------|
| Bed 01 | 1 | 1200 |
| Bed 02 | 1 | 1200 |
| Guest | 1 | 1200 |
| Kitchen/Living | 1 | 1400 |
| Master | 1 | 1200 |
| Mini Master | 1 | 1200 |
| Rumpus | 1 | 1400 |

* Refer to glossary.



Roof type

| Construction | Added insulation (R-value) | Solar absorptance | Roof Colour |
|---|----------------------------|-------------------|-------------|
| SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 4.10 | 0.50 | Medium |
| SLAB-100-CEIL-01: Concrete Slab (100mm) with Suspended PB Ceiling | 0.00 | 0.50 | Medium |

Thermal bridging *schedule for steel frame elements*

| Building element | Steel section dimensions (height x width, mm) | Frame spacing (mm) | Steel thickness (BMT mm) | Thermal Break (R-value) |
|------------------|---|--------------------|--------------------------|-------------------------|
| None | | | | |

Appliance *schedule*

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

Cooling system

| Type | Location | Fuel Type | Minimum efficiency / performance | Recommended capacity |
|-----------------------|----------|-----------|----------------------------------|----------------------|
| No Whole of Home Data | | | | |

Heating system

| Type | Location | Fuel Type | Minimum efficiency / performance | Recommended capacity |
|-----------------------|----------|-----------|----------------------------------|----------------------|
| No Whole of Home Data | | | | |

Hot water system

| Type | Fuel type | Hot Water CER Zone | Minimum efficiency / STC | Assessed daily load [litres] |
|-----------------------|-----------|--------------------|--------------------------|------------------------------|
| No Whole of Home Data | | | | |

Pool / spa equipment

| Type | Fuel type | Minimum efficiency / performance | Recommended capacity |
|-----------------------|-----------|----------------------------------|----------------------|
| No Whole of Home Data | | | |

Onsite Renewable Energy *schedule*

| Type | Orientatation | Generation Capacity [kW] |
|-----------------------|---------------|--------------------------|
| No Whole of Home Data | | |

Battery *schedule*

| Type | Storage Capacity [kWh] |
|-----------------------|------------------------|
| No Whole of Home Data | |

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 home's 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. |
| COP | 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 home's 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 ventilated corridor in a Class 2 building. |
| Exposure | see exposure categories below |
| Exposure category - exposed | 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 - suburban | terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas. |
| Exposure category - protected | terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas. |
| 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 airgap 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. |
| 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) |

* Refer to glossary.