Nationwide House Energy Rating Scheme[®] Multiple Class 1 dwellings Summary NatHERS[®] Certificate No. 0011632860

Generated on 18 Dec 2024 using BERS Pro v5.2.3 (3.23)

Property

Address 139-141 Riverview Road,

AVALON BEACH, NSW, 2107

Lot/DP Lot 1 and 2 DP 833902

NatHERS Climate Zone 56 Mascot (Sydney Airport)



Name Joseph Lorriman

Business name Evergreen Energy Consultants Pty Ltd enquiries@evergreenec.com.au

Phone 1300 584 010
Accreditation No. DMN/16/1742

Assessor Accrediting Organisation

Design Matters National

Verification

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate? p=GLtlrDkMC. When using either link, ensure you are visiting hstar.com.au



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.

Summary of all dwellings

| Certificate number and link | Unit Number | Heating load (load limit) [MJ/m²/p.a.] | Cooling load (load limit) [MJ/m²/p.a.] | Total load [MJ/m ² /p.a.] | Star Rating | Whole of Home Rating |
|-----------------------------|-------------|--|--|---|-------------|-------------------------|
| 0011632841 | | 14.5 (N/A) | 11.6 (N/A) | 26.1 | 7.4 | 0 |







Explanatory notes

About this ratings

Individual unit ratings are listed in the 'Summary of all dwellings' section of this Certificate.

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 energy loads and societal cost. 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 production and storage to estimate the homes societal cost .

For more details about an individual dwelling's assessment, refer to the individual dwelling's NatHERS Certificate (accessible via link).

Accredited Assessors

For high quality 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.

Licensed assessors in the Australian Capital Territory (ACT) can produce assessments for regulatory purposes only, using endorsed software, as listed on the ACT licensing register.

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 certificates 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 use, 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 while using the NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor.

Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011632841

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Property

Address 139-141 Riverview Road,

AVALON BEACH, NSW, 2107

Lot/DP Lot 1 and 2 DP 833902

NCC class* 1a

Floor/all Floors G of 4 floors

Type New Home

Plans

 Main plan
 2023_152

 Prepared by
 CM Studio

Construction and environment

Assessed floor area [m2]*

Conditioned* 556.5 Unconditioned* 74.1

Unconditioned* 74.1 Total 630.6

Garage 0.0

Exposure type

Open

NatHERS climate zone

56 Mascot (Sydney Airport)



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Business name Evergreen Energy Consultants Pty Ltd

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Accreditation No. DMN/16/1742

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration completed: no conflicts

NCC Requirements

NCC provisions Volume Two

Strate/Territory variation

Yes

National Construction Code (NCC) requirements

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

Thermal performance Star rating



NATIONWIDE
HOUSE

26.1 MJ/m²

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

For more information on your dwelling's rating see: www.nathers.gov.au

Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

| | Heating | Cooling |
|-------------|---------|---------|
| Modelled | 14.5 | 11.6 |
| Load limits | N/A | N/A |

Features determining load limits

| Floor Type | CSOG |
|---------------------------------|------|
| (lowest conditioned area) | 0000 |
| NCC climate zone 1 or 2 | No |
| Outdoor living area | No |
| Outdoor living area ceiling fan | No |

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

hstar.com.au

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate? p=BfEntsGHB. When using either link, ensure you are visiting





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.

Predicted Whole of Home annual impact by appliance

Energy use

Greenhouse gas emissions

No Whole of Home performance assessment conducted for this certificate

No Whole of Home

performance

assessment conducted for 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 Standard 2022: 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.

0011632841 NatHERS Certificate

7.4 Star Rating as of 18 Dec 2024

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| Certificate check | Approva | I Stage | Construe Stage | ction | |
|---|------------------|--|-------------------|---------------------------------------|-----------------|
| 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 | Builder checked | Consent Authority Surveyor checked | Occupancy/Other |
| Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist. | Assess | Conser | Builder | Conser | Occupa |
| Genuine certificate check | | 1 | 1 | 1 | |
| 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 highrise apartment is "protected". | | | | | |
| Heating and cooling load limits* | | | | | |
| Do the load limits settings (shown on page 1) match what is shown | | | | | |

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|----------|---------|--------|------------|
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| | Approva | l Stage | Construc Stage | ction | |
|---|------------------|--|-------------------|---------------------------------------|-----------------|
| Certificate check Continued | Assessor checked | Consent Authority/ Surveyor checked | Builder checked | Consent Authority Surveyor checked | Occupancy/Other |
| Additional NCC requirements for thermal performance (not include | ded in th | ne NatHE | RS asse | ssment) | |
| Thermal bridging | | | | | |
| 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 | performa | nce asses | ssment is r | not conduc | ted) |
| 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 Na | atHERS | assessr | nent) | | |
| 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 | | | | | |
| 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. | | | | | |
| Additional notes Multiple glaziers have been used as glazing is timber framed and not all glazir | ng types v | were avail | able with t | he same | |
| manufacturer | | | | | |



Room schedule

| Room | Zone Type | Area [m ²] |
|----------------|----------------|------------------------|
| Lower Hallway | Daytime | 42.95 |
| Gym/Wellness | Bedroom | 44.11 |
| Pool Storage | Unconditioned | 7.96 |
| Services Equip | Unconditioned | 31.55 |
| Sauna | Unconditioned | 4.53 |
| Changing | Unconditioned | 7.27 |
| Shower | Unconditioned | 2.73 |
| WC | Unconditioned | 2.11 |
| Laundry | Unconditioned | 6.17 |
| Drying Room | Unconditioned | 6.08 |
| Kitchen/Living | Kitchen/Living | 178.89 |
| Ground Hallway | Living | 43.08 |
| PDR | Daytime | 5.41 |
| Pantry | Daytime | 8.07 |
| Drying | Nighttime | 5.98 |
| 1st Floor Hall | Nighttime | 50.19 |
| Master Suite | Bedroom | 32.28 |
| Ensuite | Nighttime | 14.78 |
| WIR | Nighttime | 11.9 |
| Bedroom 2 | Bedroom | 22.09 |
| Ensuite 2 | Nighttime | 4.15 |
| Ensuite 3 | Nighttime | 4.79 |
| Bedroom 3 | Bedroom | 22.1 |
| Bedroom 1 | Bedroom | 21.28 |
| Ensuite 1 | Nighttime | 4.59 |
| Guest Suite | Bedroom | 20 |
| Guest WIR | Nighttime | 2.8 |
| Guest Ensuite | Nighttime | 5.27 |
| 2nd Floor Hall | Nighttime | 41.09 |
| Study | Bedroom | 32.62 |
| WC | Unconditioned | 4.38 |



| Room | Zone Type | Area [m²] |
|------|---------------|-----------|
| Mud | Unconditioned | 5.72 |

Window and glazed door type and performance

Default windows*

| Window ID | Window | Maximum | SHGC* | Substitution tolerance ranges | | |
|-------------------|-------------|----------|-------|-------------------------------|------------------|--|
| | Description | U-value* | эпис | SHGC lower limit | SHGC upper limit | |
| No Data Available | | | | | | |

Custom windows*

| Window ID | Window | Maximum | SHGC* | Substitution tolerance ranges | | | |
|-------------|---|----------|-------|-------------------------------|------------------|--|--|
| window iD | Description | U-value* | SHGC | SHGC lower limit | SHGC upper limit | | |
| TND-212-008 | Timber Hinged Door DG 4Clr/12Ar/4ET | 1.8 | 0.43 | 0.41 | 0.45 | | |
| WDR-012-008 | Timber Sliding Door DG AGG PLUS Clr 4/12/4 | 1.6 | 0.42 | 0.40 | 0.44 | | |
| WDR-001-008 | Timber Fixed Window DG AGG PLUS Clr 4/12/4 | 1.5 | 0.54 | 0.51 | 0.56 | | |
| EBS-003-004 | Thermally Broken Aluminium Louvre Window DG 6ET/20Ar/6Clr | 2.7 | 0.38 | 0.36 | 0.40 | | |

Window and glazed door schedule

| Location | Window ID | Window no. | Height [mm] | Width [mm] | Window type | Opening % | Orientation | Window shading device* |
|----------------|-----------------|---------------|----------------|---------------|----------------|--------------|-------------|------------------------------|
| Lower Hallway | TND-212-008-001 | W2 | 3000 | 1500 | Casement | 90 | W | No |
| Gym/Wellness | WDR-012-008-001 | W1 | 3000 | 3500 | Sliding | 45 | W | No |
| Kitchen/Living | WDR-012-008-001 | W40 | 3800 | 2000 | Sliding | 90 | N | No |
| Kitchen/Living | WDR-001-008-002 | W42 | 3800 | 5600 | Fixed | 00 | S | No |
| Kitchen/Living | WDR-012-008-001 | W41 | 3800 | 8230 | Sliding | 60 | Е | No |
| Kitchen/Living | WDR-001-008-002 | W66 | 3800 | 4000 | Fixed | 00 | N | No |
| Kitchen/Living | WDR-012-008-001 | W38 | 3800 | 6600 | Sliding | 60 | W | No |
| Kitchen/Living | WDR-012-008-001 | W39 | 3800 | 5200 | Sliding | 45 | N | No |
| Kitchen/Living | TND-212-008-001 | W57 | 3800 | 1900 | Casement | 90 | W | No |
| Kitchen/Living | TND-212-008-001 | W58 | 3800 | 1900 | Casement | 90 | W | No |
| Kitchen/Living | TND-212-008-001 | W59 | 3800 | 1900 | Casement | 90 | W | No |
| Kitchen/Living | TND-212-008-001 | W60 | 3800 | 1900 | Casement | 90 | W | No |
| Kitchen/Living | TND-212-008-001 | W62 | 3800 | 1900 | Casement | 90 | W | No |



| Location | Window ID | Window no. | Height [mm] | Width [mm] | Window type | Opening % | Orientation | Window shading device* |
|----------------|-----------------|---------------|----------------|---------------|----------------|--------------|-------------|------------------------------|
| Kitchen/Living | TND-212-008-001 | W61 | 3800 | 1900 | Casement | 90 | W | No |
| Ground Hallway | WDR-001-008-002 | W65 | 3800 | 893 | Fixed | 00 | NW | No |
| Ground Hallway | WDR-001-008-002 | W64 | 3800 | 1062 | Fixed | 00 | NW | No |
| Ground Hallway | WDR-012-008-001 | W43 | 3800 | 6570 | Sliding | 60 | W | No |
| Ground Hallway | WDR-001-008-002 | W63 | 3800 | 455 | Fixed | 00 | W | No |
| 1st Floor Hall | EBS-003-004-001 | W67 | 3000 | 2000 | Louvre | 90 | S | No |
| 1st Floor Hall | WDR-012-008-001 | W46 | 3000 | 8460 | Sliding | 60 | W | No |
| Master Suite | WDR-012-008-001 | W49 | 3000 | 1950 | Sliding | 90 | N | No |
| Master Suite | WDR-012-008-001 | W47 | 3000 | 2000 | Sliding | 90 | S | No |
| Master Suite | WDR-012-008-001 | W48 | 3000 | 6000 | Sliding | 60 | W | No |
| Ensuite | EBS-003-004-001 | W55 | 3000 | 2500 | Louvre | 90 | N | No |
| WIR | EBS-003-004-001 | W56 | 1000 | 1000 | Louvre | 90 | N | No |
| Bedroom 2 | WDR-012-008-001 | W29 | 3000 | 3000 | Sliding | 45 | N | No |
| Ensuite 3 | EBS-003-004-001 | W31 | 3000 | 900 | Louvre | 90 | N | No |
| Bedroom 3 | WDR-012-008-001 | W23 | 3000 | 3000 | Sliding | 45 | N | No |
| Bedroom 1 | WDR-012-008-001 | W45 | 3000 | 3000 | Sliding | 45 | N | No |
| Bedroom 1 | WDR-012-008-001 | W44 | 3000 | 4030 | Sliding | 45 | W | No |
| Ensuite 1 | EBS-003-004-001 | W68 | 3000 | 1200 | Louvre | 90 | W | No |
| Guest Suite | WDR-012-008-001 | W25 | 3000 | 5280 | Sliding | 60 | W | No |
| Guest Suite | WDR-012-008-001 | W54 | 3000 | 2000 | Sliding | 90 | N | No |
| Guest Suite | EBS-003-004-001 | W53 | 3000 | 2000 | Louvre | 90 | S | No |
| 2nd Floor Hall | WDR-012-008-001 | W52 | 3000 | 8460 | Sliding | 60 | W | No |
| Study | WDR-012-008-001 | W51 | 3000 | 4200 | Sliding | 60 | N | No |
| Study | WDR-012-008-001 | W50 | 3000 | 5380 | Sliding | 60 | W | No |

Roof window* type and performance value

Default roof windows*

| Window ID Maximum SHGC* | | Substitution to | Substitution tolerance ranges | | |
|-------------------------|-------------|-----------------|-------------------------------|------------------|------------------|
| window iD | Description | U-value* | SIGC | SHGC lower limit | SHGC upper limit |
| No Data Availa | able | | | | |



Custom roof windows*

| Window ID | Window | Maximum | SHGC* | Substitution tolerance ranges | | |
|--------------|------------------------|----------|-------|-------------------------------|------------------|--|
| window iD | Description | U-value* | SHGC | SHGC lower limit | SHGC upper limit | |
| | VEL-011-01 W VELUX | | | | _ | |
| | FS - Fixed Skylight DG | | | | | |
| VEL-011-01 W | 3mm LoE 366 / 8.5mm | 2.6 | 0.24 | 0.23 | 0.25 | |
| | Argon Gap / 5.36mm | | | | | |
| | Clear La | | | | | |

Roof window* schedule

| Location | Window ID | Window no. | Opening % | Height [mm] | Width [mm] | Orientation | Outdoor shade | Indoor shade |
|----------------|--------------|---------------|--------------|----------------|---------------|-------------|---------------|-----------------|
| Guest Ensuite | VEL-011-01 W | S1 | 0 | 900 | 900 | E | No | No |
| 2nd Floor Hall | VEL-011-01 W | S2 | 0 | 2400 | 1000 | Е | No | No |

Skylight* type and performance

| Skylight ID | Skylight description | Skylight shaft reflectance |
|-------------------|----------------------|----------------------------|
| No Data Available | | |

Skylight* schedule

| Location | Skylight ID | Skylight No. | Skylight shaft length [mm] | Area Orientation [m²] | Outdoor shade | Diffuser |
|-------------|----------------|-----------------|----------------------------------|-----------------------|------------------|----------|
| No Data Ava | ilable | | | | | |

External door schedule

| Location | Height [mm] | Width [mm] | Opening % | Orientation |
|----------------|-------------|------------|-----------|-------------|
| 2nd Floor Hall | 3000 | 2100 | 90 | E |
| 2nd Floor Hall | 3000 | 1200 | 90 | E |

External wall type

| Wall ID | Wall type | Solar Wall shade absorptance [colour] | Bulk insulation [R-value] | Reflective wall wrap* |
|------------|---|--|---|-----------------------------|
| EW- | Concrete Block, Lined Steel Stud Frame | 0.30 | Bulk Insulation, Air Gap R2 | No |
| EW- | Cavity Brick | 0.30 | Foil Anti-glare one side and Reflective other of the Bulk Insulation R2 | Yes |



External wall schedule

| Location | Wall ID | Height [mm] | Width [mm] | Orientation | Horizontal shading feature* maximum projection [mm] | Vertical shading feature [yes/no] |
|----------------|------------|----------------|---------------|-------------|---|-----------------------------------|
| Lower Hallway | EW-1 | 3000 | 1800 | E | 100 | No |
| Lower Hallway | EW-1 | 3000 | 17500 | S | 4700 | No |
| Lower Hallway | EW-1 | 3000 | 245 | E | 15300 | No |
| Lower Hallway | EW-2 | 3000 | 1690 | W | 100 | No |
| Lower Hallway | EW-1 | 3000 | 2300 | N | 100 | No |
| Gym/Wellness | EW-2 | 3000 | 3545 | W | 100 | No |
| Gym/Wellness | EW-2 | 3000 | 3270 | W | 112 | No |
| Gym/Wellness | EW-1 | 3000 | 5800 | N | 100 | No |
| Gym/Wellness | EW-1 | 3000 | 3000 | E | 100 | No |
| Pool Storage | EW-1 | 3000 | 2290 | N | 100 | No |
| Services Equip | EW-1 | 3000 | 8990 | N | 11900 | No |
| Sauna | EW-2 | 3000 | 1745 | S | 100 | No |
| Sauna | EW-2 | 3000 | 2645 | W | 100 | No |
| Changing | EW-2 | 3000 | 2890 | S | 100 | No |
| Shower | EW-1 | 3000 | 1245 | E | 15300 | No |
| Shower | EW-1 | 3000 | 2245 | S | 2000 | No |
| WC | EW-1 | 3000 | 990 | E | 15300 | No |
| Laundry | EW-1 | 3000 | 1790 | N | 6400 | No |
| Drying Room | EW-1 | 3000 | 3545 | E | 100 | No |
| Drying Room | EW-1 | 3000 | 1745 | N | 6400 | No |
| Kitchen/Living | EW-2 | 3800 | 2200 | N | 100 | No |
| Kitchen/Living | EW-1 | 3800 | 5400 | N | 100 | No |
| Kitchen/Living | EW-1 | 3800 | 5500 | E | 3200 | No |
| Kitchen/Living | EW-1 | 3800 | 2045 | N | 5400 | No |
| Kitchen/Living | EW-2 | 3800 | 5545 | S | 15000 | No |
| Kitchen/Living | EW-2 | 3800 | 8300 | E | 10175 | No |
| Kitchen/Living | EW-2 | 3800 | 4045 | N | 15300 | No |
| Kitchen/Living | EW-2 | 3800 | 13145 | S | 100 | No |
| Kitchen/Living | EW-2 | 3800 | 6600 | W | 1200 | Yes |

| 0011632841 NatHERS Certificate | | 7.4 8 | star Rating | g as of 18 Dec 2024 | | NATIONWINE HOUSE | |
|--------------------------------|------------|----------------|---------------|---------------------|---|-----------------------------------|--|
| Location | Wall ID | Height [mm] | Width [mm] | Orientation | Horizontal shading feature* maximum projection [mm] | Vertical shading feature [yes/no] | |
| Kitchen/Living | EW-2 | 3800 | 5700 | N | 1200 | No | |
| Kitchen/Living | EW-2 | 3800 | 15200 | W | 1200 | Yes | |
| Ground Hallway | EW-1 | 3800 | 539 | N | 112 | No | |
| Ground Hallway | EW-1 | 3800 | 447 | NE | 135 | No | |
| Ground Hallway | EW-1 | 3800 | 1600 | Е | 100 | No | |
| Ground Hallway | EW-1 | 3800 | 860 | NE | 90 | No | |
| Ground Hallway | EW-1 | 3800 | 1432 | NE | 135 | No | |
| Ground Hallway | EW-1 | 3800 | 1200 | Е | 100 | No | |
| Ground Hallway | EW-1 | 3800 | 1170 | Е | 103 | No | |
| Ground Hallway | EW-1 | 3800 | 990 | SE | 141 | No | |
| Ground Hallway | EW-1 | 3800 | 707 | S | 4798 | No | |
| Ground Hallway | EW-1 | 3800 | 1300 | S | 4700 | No | |
| Ground Hallway | EW-1 | 3800 | 2800 | Е | 2400 | No | |
| Ground Hallway | EW-1 | 3800 | 2300 | N | 9975 | No | |
| Ground Hallway | EW-1 | 3800 | 1800 | Е | 100 | No | |
| Ground Hallway | EW-1 | 3800 | 2300 | S | 100 | No | |
| Ground Hallway | EW-1 | 3800 | 245 | Е | 100 | No | |
| Ground Hallway | EW-2 | 3800 | 839 | NW | 16882 | No | |
| Ground Hallway | EW-2 | 3800 | 1063 | NW | 14014 | No | |
| Ground Hallway | EW-2 | 3800 | 7100 | W | 10900 | No | |
| Ground Hallway | EW-1 | 3800 | 2545 | N | 500 | No | |
| PDR | EW-1 | 3800 | 1890 | Е | 100 | No | |
| Pantry | EW-1 | 3800 | 2245 | Е | 100 | No | |
| Pantry | EW-2 | 3800 | 3645 | S | 100 | No | |
| Drying | EW-1 | 3000 | 2745 | Е | 100 | No | |
| Drying | EW-1 | 3000 | 1100 | N | 5025 | No | |
| 1st Floor Hall | EW-1 | 3000 | 2045 | E | 100 | No | |
| 1st Floor Hall | EW-1 | 3000 | 707 | NW | 11243 | No | |
| 1st Floor Hall | EW-1 | 3000 | 728 | NW | 206 | No | |
| 1st Floor Hall | EW-1 | 3000 | 608 | N | 103 | No | |
| 1st Floor Hall | EW-1 | 3000 | 860 | NE | 90 | No | |

0011632841 NatHERS Certificate

| 0011632841 NatHERS Certificate | | 7.4 8 | star Rating | g as of 18 Dec 2024 | | HOUSE | |
|--------------------------------|------------|----------------|---------------|---------------------|---|-----------------------------------|--|
| Location | Wall ID | Height [mm] | Width [mm] | Orientation | Horizontal shading feature* maximum projection [mm] | Vertical shading feature [yes/no] | |
| 1st Floor Hall | EW-1 | 3000 | 1432 | NE | 90 | No | |
| 1st Floor Hall | EW-1 | 3000 | 1200 | E | 100 | No | |
| 1st Floor Hall | EW-1 | 3000 | 1170 | E | 112 | No | |
| 1st Floor Hall | EW-1 | 3000 | 990 | SE | 71 | No | |
| 1st Floor Hall | EW-2 | 3000 | 751 | S | 6475 | No | |
| 1st Floor Hall | EW-1 | 3000 | 1745 | Е | 100 | No | |
| 1st Floor Hall | EW-1 | 3000 | 2300 | S | 4700 | No | |
| 1st Floor Hall | EW-1 | 3000 | 4600 | E | 2400 | No | |
| 1st Floor Hall | EW-2 | 3000 | 11645 | S | 100 | No | |
| 1st Floor Hall | EW-2 | 3000 | 8945 | W | 500 | No | |
| Master Suite | EW-2 | 3000 | 4095 | N | 100 | No | |
| Master Suite | EW-1 | 3000 | 500 | N | 100 | No | |
| Master Suite | EW-1 | 3000 | 1045 | Е | 100 | No | |
| Master Suite | EW-2 | 3000 | 9000 | S | 600 | No | |
| Master Suite | EW-2 | 3000 | 6000 | W | 1400 | No | |
| Ensuite | EW-2 | 3000 | 3390 | N | 100 | No | |
| WIR | EW-2 | 3000 | 1795 | N | 100 | No | |
| WIR | EW-1 | 3000 | 700 | N | 100 | No | |
| WIR | EW-1 | 3000 | 4845 | Е | 100 | No | |
| Bedroom 2 | EW-2 | 3000 | 4090 | N | 600 | No | |
| Ensuite 3 | EW-2 | 3000 | 1740 | N | 600 | No | |
| Bedroom 3 | EW-2 | 3000 | 4140 | N | 600 | No | |
| Bedroom 1 | EW-2 | 3000 | 4045 | N | 600 | No | |
| Bedroom 1 | EW-2 | 3000 | 1090 | S | 100 | No | |
| Bedroom 1 | EW-2 | 3000 | 4845 | W | 1400 | No | |
| Ensuite 1 | EW-2 | 3000 | 2845 | S | 100 | No | |
| Ensuite 1 | EW-2 | 3000 | 1645 | W | 1400 | No | |
| Guest Suite | EW-2 | 3000 | 6000 | W | 1400 | No | |
| Guest Suite | EW-2 | 3000 | 3045 | N | 100 | No | |
| Guest Suite | EW-2 | 3000 | 990 | E | 700 | No | |
| Guest Suite | EW-2 | 3000 | 3900 | S | 600 | No | |

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| 0011632841 NatHERS | S Certificate | 7.4 S | tar Rating | g as of 18 Dec 2024 | | HÖÜSE |
|--------------------|---------------|----------------|---------------|---------------------|---|-----------------------------------|
| Location | Wall ID | Height [mm] | Width [mm] | Orientation | Horizontal shading feature* maximum projection [mm] | Vertical shading feature [yes/no] |
| Guest WIR | EW-2 | 3000 | 1745 | N | 100 | No |
| Guest WIR | EW-2 | 3000 | 1645 | Е | 700 | No |
| Guest Ensuite | EW-2 | 3000 | 3145 | E | 700 | No |
| 2nd Floor Hall | EW-2 | 3000 | 1345 | E | 700 | No |
| 2nd Floor Hall | EW-2 | 3000 | 1700 | N | 700 | No |
| 2nd Floor Hall | EW-2 | 3000 | 608 | N | 633 | No |
| 2nd Floor Hall | EW-2 | 3000 | 860 | NE | 576 | No |
| 2nd Floor Hall | EW-2 | 3000 | 1432 | NE | 637 | No |
| 2nd Floor Hall | EW-2 | 3000 | 1200 | E | 650 | No |
| 2nd Floor Hall | EW-2 | 3000 | 1170 | E | 957 | No |
| 2nd Floor Hall | EW-2 | 3000 | 990 | SE | 2051 | No |
| 2nd Floor Hall | EW-2 | 3000 | 707 | S | 9443 | No |
| 2nd Floor Hall | EW-2 | 3000 | 700 | S | 9300 | No |
| 2nd Floor Hall | EW-2 | 3000 | 2800 | Е | 3200 | No |
| 2nd Floor Hall | EW-2 | 3000 | 1700 | N | 8425 | No |
| 2nd Floor Hall | EW-2 | 3000 | 3445 | E | 16900 | No |
| 2nd Floor Hall | EW-2 | 3000 | 9745 | W | 600 | No |
| Study | EW-2 | 3000 | 5645 | N | 600 | No |
| Study | EW-2 | 3000 | 5645 | S | 100 | No |
| Study | EW-2 | 3000 | 5800 | W | 1400 | No |
| WC | EW-2 | 3000 | 1590 | S | 100 | No |
| Mud | EW-2 | 3000 | 2845 | Е | 16900 | No |
| | | | | | | |

Internal wall type

EW-2

3000

2045

Mud

| Wall ID | Wall type | Area [m ²] | Bulk insulation |
|---------|--|------------------------|-----------------|
| IW-001 | Single Skin Brick | 414.36 | No insulation |
| IW-002 | Timber Stud Frame, Direct Fix Plasterboard | 30.00 | No insulation |

S

100

No



Floor type

| Location | Construction | Area [m²] | Sub-floor ventilation | Added insulation [R-value] | Covering |
|----------------|----------------------------------|--------------|--------------------------|--|-----------------------------|
| Lower Hallway | Concrete Slab on Ground 100mm | 42.95 | None | Bulk Insulation in Contact with Floor R2 | Cork Tiles or Parquetry 8mm |
| Gym/Wellness | Concrete Slab on Ground 100mm | 44.11 | None | Bulk Insulation in Contact with Floor R2 | Cork Tiles or Parquetry 8mm |
| Pool Storage | Concrete Slab on Ground 100mm | 7.96 | None | Bulk Insulation in Contact with Floor R2 | Bare |
| Services Equip | Concrete Slab on Ground 100mm | 31.55 | None | Bulk Insulation in Contact with Floor R2 | Bare |
| Sauna | Concrete Slab on Ground 100mm | 4.53 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |
| Changing | Concrete Slab on Ground 100mm | 7.27 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |
| Shower | Concrete Slab on Ground 100mm | 2.73 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |
| WC | Concrete Slab on Ground 100mm | 2.11 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |
| Laundry | Concrete Slab on Ground 100mm | 6.17 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |



| Location | Construction | Area [m²] | Sub-floor ventilation | Added insulation [R-value] | Covering |
|------------------------------------|---|--------------|-----------------------|--|-----------------------------|
| Drying Room | Concrete Slab on Ground 100mm | 6.08 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |
| Kitchen/Living / Lower Hallway | Concrete Steel Framed Above Plasterboard 100mm | 24.88 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Kitchen/Living / Services Equip | Concrete Steel Framed Above Plasterboard 100mm | 15.11 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Kitchen/Living / Shower | Concrete Steel Framed Above Plasterboard 100mm | 1.56 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Kitchen/Living / WC | Concrete Steel Framed Above Plasterboard 100mm | 1.22 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Kitchen/Living | Concrete Slab on Ground 100mm | 132.55 | None | Bulk Insulation in Contact with Floor R2 | Cork Tiles or Parquetry 8mm |
| Ground Hallway / Lower Hallway | Concrete Steel Framed Above Plasterboard 100mm | 9.04 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Ground Hallway / Laundry | Concrete Steel Framed Above Plasterboard 100mm | 0.11 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Ground Hallway / Drying Room | Concrete Steel Framed Above Plasterboard 100mm | 5.26 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Ground Hallway | Concrete Slab on Ground 100mm | 27.18 | None | Bulk Insulation in Contact with Floor R2 | Cork Tiles or Parquetry 8mm |
| PDR | Concrete Slab on Ground 100mm | 5.41 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |
| Pantry | Concrete Slab on Ground 100mm | 8.07 | None | Bulk Insulation in Contact with Floor R2 | Cork Tiles or Parquetry 8mm |
| Drying | Concrete Slab on Ground 100mm | 5.98 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |
| 1st Floor Hall / Kitchen/Living | Concrete Steel Framed Above Plasterboard 100mm | 0.00 | | No Insulation | Cork Tiles or Parquetry 8mm |
| 1st Floor Hall / Ground Hallway | Concrete Steel Framed Above Plasterboard 100mm | 2.29 | | No Insulation | Cork Tiles or Parquetry 8mm |



| Location | Construction | Area [m²] | Sub-floor ventilation | Added insulation [R-value] | Covering |
|----------------------------------|---|--------------|-----------------------|--|-----------------------------|
| 1st Floor Hall / PDR | Concrete Steel Framed Above Plasterboard 100mm | 0.00 | | No Insulation | Cork Tiles or Parquetry 8mm |
| 1st Floor Hall / Pantry | Concrete Steel Framed Above Plasterboard 100mm | 0.00 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Master Suite / Kitchen/Living | Concrete Steel Framed Above Plasterboard 100mm | 29.54 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Master Suite / Ground Hallway | Concrete Steel Framed Above Plasterboard 100mm | 0.33 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Master Suite | Concrete Slab on Ground 100mm | 0.96 | None | Bulk Insulation in Contact with Floor R2 | Cork Tiles or Parquetry 8mm |
| Ensuite / Kitchen/Living | Concrete Steel Framed Above Plasterboard 100mm | 12.08 | | No Insulation | Ceramic Tiles 8mm |
| Ensuite | Concrete Slab on Ground 100mm | 2.18 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |
| WIR | Concrete Slab on Ground 100mm | 11.90 | None | Bulk Insulation in Contact with Floor R2 | Cork Tiles or Parquetry 8mm |
| Bedroom 2 / Kitchen/Living | Concrete Steel Framed Above Plasterboard 100mm | 22.09 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Ensuite 2 / Kitchen/Living | Concrete Steel Framed Above Plasterboard 100mm | 4.15 | | No Insulation | Ceramic Tiles 8mm |
| Ensuite 3 / Kitchen/Living | Concrete Steel Framed Above Plasterboard 100mm | 4.79 | | No Insulation | Ceramic Tiles 8mm |
| Bedroom 3 / Kitchen/Living | Concrete Steel Framed Above Plasterboard 100mm | 13.01 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Bedroom 3 / Ground Hallway | Concrete Steel Framed Above Plasterboard 100mm | 2.45 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Bedroom 3 / PDR | Concrete Steel Framed Above Plasterboard 100mm | 2.00 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Bedroom 3 / Pantry | Concrete Steel Framed Above Plasterboard 100mm | 1.64 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Bedroom 1 / Kitchen/Living | Concrete Steel Framed Above Plasterboard 100mm | 21.28 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Ensuite 1 / Kitchen/Living | Concrete Steel Framed Above Plasterboard 100mm | 4.59 | | No Insulation | Ceramic Tiles 8mm |
| Guest Suite / Master Suite | Concrete Steel Framed Above Plasterboard 100mm | 5.77 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Guest Suite / Ensuite | Concrete Steel Framed Above Plasterboard 100mm | 10.22 | | No Insulation | Cork Tiles or Parquetry 8mm |



| Location | Construction | Area [m²] | Sub-floor ventilation | Added insulation [R-value] | Covering |
|------------------------------------|---|--------------|-----------------------|--|-----------------------------|
| Guest Suite / WIR | Concrete Steel Framed Above Plasterboard 100mm | 2.84 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Guest WIR / WIR | Concrete Steel Framed Above Plasterboard 100mm | 2.80 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Guest Ensuite / WIR | Concrete Steel Framed Above Plasterboard 100mm | 5.26 | | No Insulation | Ceramic Tiles 8mm |
| 2nd Floor Hall / Drying | Concrete Steel Framed Above Plasterboard 100mm | 0.00 | | No Insulation | Cork Tiles or Parquetry 8mm |
| 2nd Floor Hall / 1st Floor Hall | Concrete Steel Framed Above Plasterboard 100mm | 3.57 | | No Insulation | Cork Tiles or Parquetry 8mm |
| 2nd Floor Hall | Concrete Slab on Ground 100mm | 3.59 | None | Bulk Insulation in Contact with Floor R2 | Cork Tiles or Parquetry 8mm |
| Study / 1st Floor Hall | Concrete Steel Framed Above Plasterboard 100mm | 5.84 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Study / Ensuite 2 | Concrete Steel Framed Above Plasterboard 100mm | 3.47 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Study / Ensuite 3 | Concrete Steel Framed Above Plasterboard 100mm | 2.72 | | No Insulation | Cork Tiles or Parquetry 8mm |
| Study / Bedroom 3 | Concrete Steel Framed Above Plasterboard 100mm | 19.30 | | No Insulation | Cork Tiles or Parquetry 8mm |
| WC / 1st Floor Hall | Concrete Steel Framed Above Plasterboard 100mm | 3.79 | | No Insulation | Ceramic Tiles 8mm |
| WC | Concrete Slab on Ground 100mm | 0.03 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |
| Mud | Concrete Slab on Ground 100mm | 5.72 | None | Bulk Insulation in Contact with Floor R2 | Ceramic Tiles 8mm |

Ceiling type

| Location | Construction material/type | Bulk insulation R-value (may include edge batt values) | Reflective wrap* [yes/no] |
|----------------|--|--|---------------------------|
| Lower Hallway | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Lower Hallway | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Gym/Wellness | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Pool Storage | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Services Equip | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |

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| Location | Construction material/type | Bulk insulation R-value (may include edge batt values) | Reflective wrap* [yes/no] |
|----------------|--|--|---------------------------|
| Services Equip | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Sauna | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Changing | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Shower | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Shower | Concrete Steel Framed Above Plasterboard | No Insulation | |
| WC | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| WC | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Laundry | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Laundry | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Drying Room | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Drying Room | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Kitchen/Living | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Kitchen/Living | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Ground Hallway | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Ground Hallway | Concrete Steel Framed Above Plasterboard | No Insulation | |
| PDR | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Pantry | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Drying | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Drying | Concrete Steel Framed Above Plasterboard | No Insulation | |
| 1st Floor Hall | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| 1st Floor Hall | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Master Suite | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Master Suite | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Ensuite | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Ensuite | Concrete Steel Framed Above Plasterboard | No Insulation | |
| WIR | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Bedroom 2 | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Ensuite 2 | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Ensuite 2 | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Ensuite 3 | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Ensuite 3 | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Bedroom 3 | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |

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| Location | Construction material/type | Bulk insulation R-value (may include edge batt values) | Reflective wrap* [yes/no] |
|----------------|--|--|------------------------------|
| Bedroom 3 | Concrete Steel Framed Above Plasterboard | No Insulation | |
| Bedroom 1 | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Ensuite 1 | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Guest Suite | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Guest WIR | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Guest Ensuite | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| 2nd Floor Hall | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Study | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| WC | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |
| Mud | Concrete, Plasterboard with Steel Frame | Bulk Insulation R4 | |

Ceiling penetrations*

| Sealed |
|--------|
| 0 1 1 |
| Sealed |
| |
| Sealed |
| |

Ceiling fans

| Location | Quantity Diameter [mm] | |
|--------------|------------------------|------|
| Gym/Wellness | 1 | 1800 |

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|--------------------------------|--|---------------|
| Location | Quantity | Diameter [mm] |
| Kitchen/Living | 2 | 2400 |
| Master Suite | 1 | 1800 |
| Bedroom 2 | 1 | 1400 |
| Bedroom 3 | 1 | 1400 |
| Bedroom 1 | 1 | 1400 |
| Guest Suite | 1 | 1400 |
| Study | 1 | 1800 |

Roof type

| Construction | Added insulation [R-value] | Solar absorptance | Roof shade [colour] |
|------------------------|---------------------------------|----------------------|---------------------|
| Waterproofing Membrane | No Added Insulation, No air Gap | 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] |
|------------------|---|--------------------|-----------------------------|-------------------------------|
| External Wall | | 600 | 0.75 | R0.2 |
| Ceiling | | 900 | 0.75 | R0.2 |
| Ceiling | | 900 | 0.75 | No |

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

| Appliance/ system type | Location | Fuel type | Minimum efficiency/ performance | Recommended capacity |
|------------------------|----------|-----------|---------------------------------------|----------------------|
| No Data Available | | | | |

Heating system

| Appliance/ system type | Location | Fuel type | Minimum efficiency/ performance | Recommended capacity |
|------------------------|----------|-----------|---------------------------------------|----------------------|
| No Data Available | | | | |



Hot water system

| Appliance/ system type | Hot Minimum Zone 3 pliance/ system type Fuel type Water efficiency STC | Zone 3 | Zone 3 Su toleranc | ibstitution e ranges | Assessed daily load | | |
|------------------------|---|----------|-----------------------|-------------------------|---------------------|-------------|----------|
| | | CER Zone | /STC | SIC | lower limit | upper limit | [litres] |

No Data Available

Pool/spa equipment

| Appliance/ system type | Fuel type | Minimum efficiency/ performance | Recommended capacity |
|------------------------|-----------|---------------------------------------|----------------------|
| | | | |

No Data Available

Onsite Renewable Energy Schedule

| System Type | Orientation | System Size Or Generation Capacity |
|-------------|-------------|------------------------------------|
| '- | | |

No Data Available

Battery Schedule

| System Type | Size [Battery Storage Capacity] |
|-------------------|---------------------------------|
| No Data Available | |



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

| AFRC | Australian Fonostration Pating Council |
|---|--|
| | Australian Fenestration Rating Council the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions. |
| Annual energy load | the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the |
| Assessed floor area | 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. |
| COP | Coefficient of performance |
| 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. |
| 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 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 – protected | terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas. |
| Exposure category – suburban | 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. |
| Skylight (also known as roof lights) | or NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level. |
| 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. |
| 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 Regulator (CER) |
| 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 or continuous thermal breaks such as polystyrene insulation sheeting or plastic strips |
| 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 | device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies) |