



Nationwide House Energy
Rating Scheme

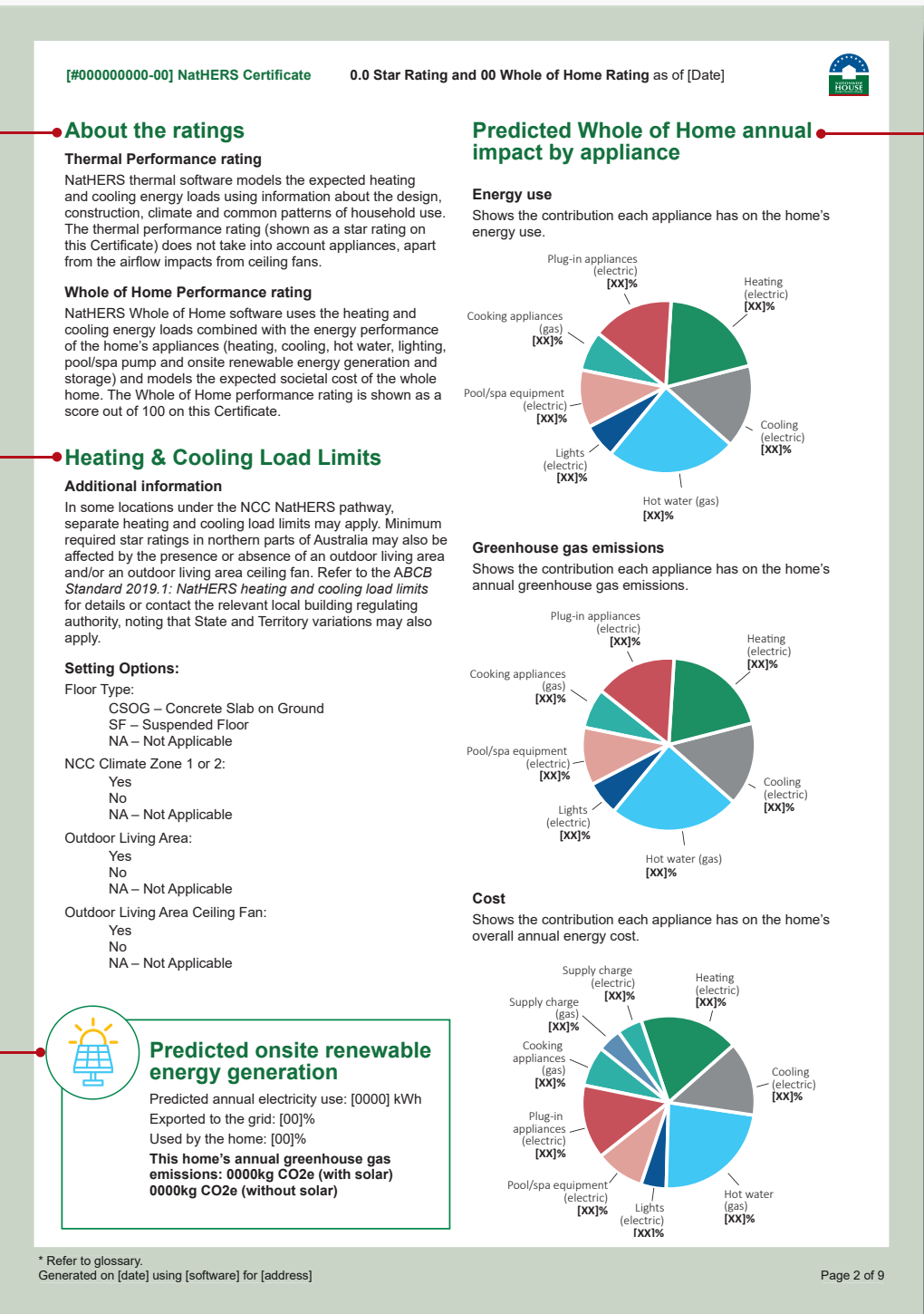
Changes to the
NatHERS Certificates to
support the National
Construction Code 2022

Sample of a Class 1 Certificate
(Class 2 individual unit Certificate is similar)

About the ratings
New explanatory information is being provided about each of the NatHERS ratings.
This information is designed to ensure users of the Certificate understand what each rating is measuring.

Heating and Cooling Load Limits
New explanatory information is being provided about each of the NatHERS ratings.
This information is designed to ensure users of the Certificate understand what each rating is measuring.

Predicted onsite renewable energy generation
New information about the home's predicted onsite renewable energy generation has been added to the Certificate. This information can be used to see how much energy the home is generating, exporting and importing from the electricity grid. It can also be used to see if the home is net zero energy and carbon.



Predicted Whole of Home annual impact by appliance
New information on the dwelling's annual energy use, greenhouse gas emissions and cost is being added to the Certificate. The information allows users to understand what impact each appliance is having on the home's energy use, cost and greenhouse gas emissions.

Note that this version of the Certificate is subject to change as a result of the NCC 2022 consultation process



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Certificate Check

An expanded Certificate checklist is being added to the new Certificate. The Certificate checklist allows users of the Certificate to check that the dwelling is designed and then built according to the information used to create the NatHERS ratings.

Sample of a Class 1 Certificate
(Class 2 individual unit Certificate is similar)

[#000000000-00] NatHERS Certificate0.0 Star Rating and 00 Whole of Home Rating as of [Date]

Approval Stage

Assessor checked

Consent Authority/
Surveyor checked

Builder checked

Consent Authority
Surveyor checked

Occupancy/Other

Construction Stage

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 by whom each item should be checked. It is not mandatory to complete this checklist.

Genuine certificate check

Does this Certificate match the one available at the web address or QR code in the verification box 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 and location shown on the NatHERS-stamped plans or installed, match what is shown in Window and glazed doors and Roof window schedule, type and performance tables on this Certificate?

Does the installed window meet the substitution tolerances (SHGC and U-value) and window type, of the window shown in the Window and glazed door and Roof window type and performance table on this Certificate?

External walls

Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or 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 installed, match what is shown in the Floor type table on this Certificate?

Ceiling penetrations*

Does the 'number' and 'type' of ceiling penetrations (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or installed, match what is shown on this Certificate?

Ceiling

Does the ceiling insulation R-value shown on the NatHERS-stamped plans or installed, match what is shown in the Ceiling type table on this Certificate?

Roof

Does the external roof shade (colour) match what is shown in the Roof type table on this Certificate?

Apartment entrance doors (NCC Class 2 assessments only)

Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.

Exposure*

Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".

Heating and Cooling Load Limits*

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

* Refer to glossary.
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Nationwide House Energy
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Changes to the
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Schedules

New appliance, onsite renewable energy and battery schedules have been added to the Certificate. These schedules will include detailed information about the appliances, onsite renewable energy and battery systems that were used to create the NatHERS ratings.

Sample of a Class 1 Certificate
(Class 2 individual unit Certificate is similar)

[#000000000-00] NatHERS Certificate0.0 Star Rating and 00 Whole of Home Rating as of [Date]

Appliance schedule

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

Appliance/ System Type	Location	Fuel Type	Minimum Efficiency/ Performance	Recommended Capacity
Cooling system				
Ducted Refrigerative air conditioning (heat pump)	Kitchen/Dining/Living	Electric	00	00
Ducted Refrigerative air conditioning (heat pump)	Bedroom 1	Electric	00	00
Ducted Refrigerative air conditioning (heat pump)	Bedroom 2	Electric	00	00
Ducted Refrigerative air conditioning (heat pump)	Bedroom 3	Electric	00	00
Heating system				
Ducted reverse cycle air-conditioner (heat pump)	Kitchen/Dining/Living	Electric	00	00
Ducted reverse cycle air-conditioner (heat pump)	Bedroom 1	Electric	00	00
Ducted reverse cycle air-conditioner (heat pump)	Bedroom 2	Electric	00	00
Ducted reverse cycle air-conditioner (heat pump)	Bedroom 3	Electric	00	00
Hot water system				
Gas instantaneous	-	Gas	0 star	
Pool/Spa Equipment				
Single Speed Pressure Cleaner with Main Filtration Pump	-	Electric	00	00

Onsite Renewable Energy schedule

System Type	Orientation	System size or generation capacity
Solar PV	North West	0 kWp

Battery schedule

System Type	Size (Battery Storage Capacity)
Lithium-Ion	0 kWh

* Refer to glossary.
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Sample of a Class 1 Certificate
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Thermal bridging Schedule
This is a place holder for the proposed thermal
bridging schedule. Please refer to the note.

[#000000000-00] NatHERS Certificate0.0 Star Rating and 00 Whole of Home Rating as of [Date]

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*

Ceiling penetrations*

Location	Quantity	Type	Diameter (mm²)	Sealed/unsealed

Ceiling fans

Location	Quantity	Diameter (mm)

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof shade

[Thermal bridging schedule]

xxx	xxx	xxx()	xxx

A thermal bridging schedule is being developed and will disclose key aspects of the thermal bridging inputs. This will be consulted on prior to certificate finalisation.

* Refer to glossary.
Generated on [date] using [software] for [address]

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Nationwide House Energy Rating Scheme

Changes to the NatHERS Certificates to support the National Construction Code 2022

Explanatory Notes

The explanatory notes are being updated to include information about the new features on the Certificate.

Glossary

The glossary is being updated to include information on the new features on the Certificate.

Sample of a Class 1 Certificate (Class 2 individual unit Certificate is similar)

#000000000-00] NatHERS Certificate

0.0 Star Rating and 00 Whole of Home Rating as of [Date]

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 societal cost 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 societal cost.

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.
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, rangehoods, 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 value	Refer to societal cost
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 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.abcc.gov.au .
Opening percentage	the operability 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 .
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 device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes eaves.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Societal cost	means the net cost to society, including but not limited to, costs to the dwelling user, the environment and energy networks.
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
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).

* Refer to glossary.

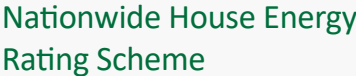
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Note that this version of the Certificate is subject to change as a result of the NCC 2022 consultation process

Version 3 - 27 October, 2021

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Changes to the NatHERS Certificates to support the National Construction Code 2022

Sample of a Class 2 summary Certificate

Class 2 Summary Certificate

This Certificate is a summary rating for a whole building including a table referring to each individual unit's Certificate.

Thermal performance star rating

The new NatHERS Class 2 Summary Certificate will retain the average thermal performance star rating to demonstrate compliance with the proposed Performance Requirement 1 (PR1) in NCC 2022.

NCC heating and cooling maximum loads

New information about the Heating and Cooling Load Limits has been added to the Summary Certificate. This includes the apartment block average heating and cooling loads limits and the individual unit loads limits. This information will allow users of the Certificate, such as certifiers, to quickly assess whether the NCC load limits have been met, while also allowing them to consider local variations.

Whole of Home Performance Rating

The new Whole of Home performance rating in the Class 2 Summary Certificate represents the lowest individual rating for a unit in the apartment block. The rating will allow users of the Certificate, such as certifiers, to quickly assess whether the dwelling meets the proposed NCC 2022 PR2.

Summary of all dwellings

The summary table has been updated to include the individual Whole of Home performance ratings for each unit in the apartment block.

Nationwide House Energy Rating

Scheme Class 2 Summary

NatHERS Certificate No. [#000000000-00]

Generated on [date] using [software and version]

[other boilerplate text other boilerplate text other boilerplate text other boilerplate text other boilerplate text other boilerplate text]

Property

Address [00 Street,
Suburb, State/Territory, Postcode]

Lot/DP [number]

NatHERS Climate Zone [number]

Accredited assessor

Name [assessor name]
Business name [business name]
Email [email address]
Phone [00 0000 0000]
Accreditation No. [0000 000 000]
Assessor Accrediting Organisation [name of Assessor Accrediting Organisation]

Verification

To verify this certificate, scan the QR code or visit [Hstar-dev.azurewebsites.net/HQR/Generate?p=MlaIcPjJL.]

When using either link, ensure you are visiting hstar-dev.azurewebsites.net

National Construction Code (NCC) requirements

[This section is to be updated with NCC code requirement wording when confirmed]

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ² /p.a.)	Cooling load (MJ/m ² /p.a.)	Total load (MJ/ m ² /p.a.)	Star Rating	Whole of Home Rating
Modelled average						
[0000000000]	A1	0000.0	0000.0	0000.0	0.0	000
[0000000000]	A2	0000.0	0000.0	0000.0	0.0	000

Thermal performance Star Rating

X.X

Average rating

NATIONWIDE HOUSE ENERGY RATING SCHEME

The rating above is the average of all dwellings in this summary

For more information on your dwelling's rating see:
[www.nathers.gov.au](#)

NCC heating and cooling maximum loads MJ/m²/p.a.

Limits taken from ABCB Standard 2019.1

	Heating	Cooling
Block average	0000.0	0000.0
Individual unit	0000.0	0000.0

Whole of Home performance rating

00 out of 100

* Refer to glossary.
Generated on [date] using [software] for [address]

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Nationwide House Energy
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Changes to the
NatHERS Certificates to
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Construction Code 2022

Summary of all dwellings

The summary table will continue onto the
following pages to account for more dwellings.

Explanatory Notes

Updated explanatory notes include information
about the new features on the Summary
Certificate.

Sample of a Class 2 summary Certificate

[#000000000-00] NatHERS Certificate0.0 Star Rating and 00 Whole of Home Rating as of [Date]

Summary of all dwellings (continued)

Certificate number and link	Unit Number	Heating load (MJ/m²/p.a.)	Cooling load (MJ/m²/p.a.)	Total load (MJ/m²/p.a.)	Star Rating	Whole of Home Rating
0000000000	A1	0000.0	0000.0	0000.0	0.0	000
0000000000	A2	0000.0	0000.0	0000.0	0.0	000
0000000000	A3	0000.0	0000.0	0000.0	0.0	000
0000000000	A4	0000.0	0000.0	0000.0	0.0	000
0000000000	A5	0000.0	0000.0	0000.0	0.0	000
0000000000	A6	0000.0	0000.0	0000.0	0.0	000
0000000000	A7	0000.0	0000.0	0000.0	0.0	000
0000000000	A8	0000.0	0000.0	0000.0	0.0	000
0000000000	A9	0000.0	0000.0	0000.0	0.0	000
0000000000	A10	0000.0	0000.0	0000.0	0.0	000
0000000000	A11	0000.0	0000.0	0000.0	0.0	000
0000000000	A12	0000.0	0000.0	0000.0	0.0	000

Explanatory notes

About the ratings

The thermal performance star rating in this Certificate is the average rating of all NCC Class 2 dwellings in an apartment block. The Whole of Home performance rating in this Certificate is the lowest rating for the apartment block. 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

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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

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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.

* Refer to glossary.
Generated on [date] using [software] for [address]

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