

Nationwide House Energy Rating Scheme

NatHERS Certificate No. 0005992425-04

Generated on 15 Jul 2021 using BERS Pro v4.4.0.2 (3.21)

Property

Address 80 Peacock Street , Seaforth , NSW , 2092

Lot/DP 1/202202

NCC Class* 1A

Type New Dwelling

Plans

Main Plan Issue D, Date Issued: 28/04/2021

Prepared by Du Plessis Architects

Construction and environment

Assessed floor area (m ² *)	Exposure Type
Conditioned*	315.0
Unconditioned*	72.0
Total	387.0
Garage	44.0

NatHERS climate zone
Suburban
56



Accredited assessor

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Assessor Accrediting Organisation HERA

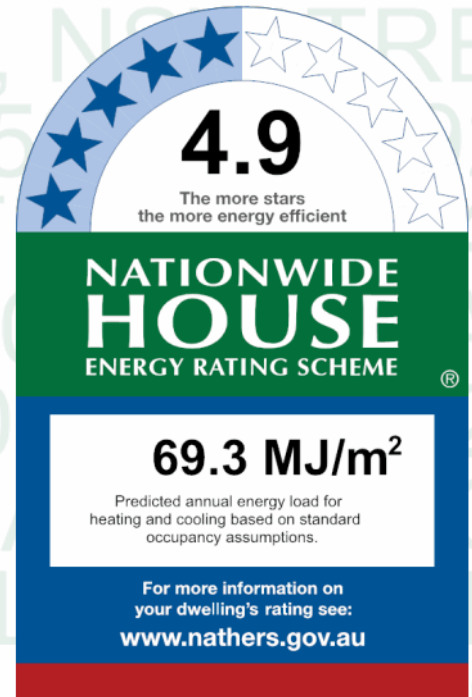
Declaration of interest None

National Construction Code (NCC) requirements

The NCC's requirements for NatHERS-rated houses are detailed in 3.12.0(a)(i) and 3.12.5 of the NCC Volume Two. For apartments the requirements are detailed in J0.2 and J5 to J8 of the NCC Volume One.

In NCC 2019, these requirements include minimum star ratings and separate heating and cooling load limits that need to be met by buildings and apartments through the NatHERS assessment. Requirements additional to the NatHERS assessment that must also be satisfied include, but are not limited to: insulation installation methods, thermal breaks, building sealing, water heating and pumping, and artificial lighting requirements. The NCC and NatHERS Heating and Cooling Load Limits (Australian Building Codes Board Standard) are available at www.abcb.gov.au.

State and territory variations and additions to the NCC may also apply.



Thermal performance

Heating	Cooling
44.5 MJ/m ²	24.9 MJ/m ²

About the rating

NatHERS software models the expected thermal energy loads using information about the design and construction, climate and common patterns of household use. The software does not take into account appliances, apart from the airflow impacts from ceiling fans.

Verification

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate?p=NKPfzuOJE.

When using either link, ensure you are visiting hstar.com.au



Certificate check

Ensure the dwelling is designed and then built as per the NatHERS Certificate. While you need to check the accuracy of the whole Certificate, the following spot check covers some important items impacting the dwelling's rating.

Genuine certificate

Does this Certificate match the one available at the web address or QR code in the verification box on the front page? Does the set of NatHERS-stamped plans for the dwelling have a Certificate number on the stamp that matches this Certificate?

Ceiling penetrations*

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

Windows

Does the installed window meet the substitution tolerances (SHGC and U-value) and window type, of the window shown on this Certificate?

Apartment entrance doors

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 level (terrain) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".

Provisional* values

Have provisional values been used in the assessment and, if so, noted in "additional notes" below?

Additional notes

*The dwelling has been assessed without recessed light fittings as no lighting or electrical plan has been provided.

Window and glazed door *type and performance*

Default* windows

Window ID	Window Description	Maximum U-value*	SHGC*	Substitution tolerance ranges	
				SHGC lower limit	SHGC upper limit
ATB-003-01 B	ATB-003-01 B AI Thermally Broken A DG Air Fill Clear-Clear	3.6	0.47	0.47	0.47
ATB-004-01 B	ATB-004-01 B AI Thermally Broken B DG Air Fill Clear-Clear	3.6	0.54	0.54	0.54
ALM-004-04 A	ALM-004-04 A Aluminium B DG Air Fill Low Solar Gain low-E -Clear	4.9	0.33	0.33	0.33
ATB-004-04 B	ATB-004-04 B AI Thermally Broken B DG Air Fill Low Solar Gain low-E -Clear	3.1	0.27	0.27	0.27

Custom* windows

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

Window and glazed door *schedule*

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Pool Room/Stair	ATB-003-01 B	n/a	2400	3580	n/a	90	N	No
Pool Room/Stair	ATB-003-01 B	n/a	2400	1000	n/a	90	N	No
BathroomLGF	ATB-004-01 B	n/a	600	1580	n/a	00	W	No
Stairs GF	ATB-004-01 B	n/a	2400	1000	n/a	00	N	No
Main Stairs	ATB-004-01 B	n/a	2100	4285	n/a	00	W	Yes
Main Stairs	ATB-004-01 B	n/a	2240	1000	n/a	00	N	No
Family Room	ATB-003-01 B	n/a	1200	1200	n/a	30	W	No
Family Room	ATB-003-01 B	n/a	1200	1200	n/a	30	W	No
Family Room	ATB-004-01 B	n/a	2156	2500	n/a	90	N	No
Family Room	ATB-004-01 B	n/a	2425	3100	n/a	60	S	Yes
Void	ATB-004-01 B	n/a	1550	1368	n/a	00	S	Yes
Main Bedroom 1	ATB-004-01 B	n/a	2400	4150	n/a	60	S	No
Main Bedroom 1	ATB-004-01 B	n/a	1525	2460	n/a	45	W	Yes
Main Bedroom 1	ALM-004-04 A	n/a	500	3600	n/a	00	N	No Shading
ENS Main	ATB-003-01 B	n/a	870	870	n/a	30	E	No
ENS Main	ATB-004-01 B	n/a	875	2400	n/a	45	E	No
WC	ATB-004-01 B	n/a	870	870	n/a	00	E	No
Bathroom	ATB-004-01 B	n/a	1000	750	n/a	00	S	No
Bedroom 4	ATB-003-01 B	n/a	1200	666	n/a	30	S	No
Bedroom 4	ATB-004-04 B	n/a	900	3856	n/a	00	NE	No Shading
Bedroom 3	ATB-003-01 B	n/a	1200	666	n/a	30	S	No
Bedroom 3	ATB-004-04 B	n/a	900	3856	n/a	00	NE	No Shading
Bedroom 2	ATB-004-01 B	n/a	1200	4058	n/a	00	W	No
Bedroom 2	ATB-004-01 B	n/a	1200	1200	n/a	00	N	No
Bedroom 2	ATB-004-04 B	n/a	900	3856	n/a	00	E	No Shading
Hallway FF	ATB-004-01 B	n/a	1200	5674	n/a	00	W	No
Hallway FF	ATB-004-01 B	n/a	1200	1222	n/a	90	W	No
Garage	ATB-004-01 B	n/a	700	700	n/a	00	N	No
Bathroom/WC	ATB-004-01 B	n/a	1500	900	n/a	00	E	No
Kitchen/Living	ATB-004-01 B	n/a	2400	3000	n/a	45	S	No
Kitchen/Living	ATB-004-01 B	n/a	2400	1000	n/a	45	S	No
Kitchen/Living	ATB-004-01 B	n/a	2400	3600	n/a	60	N	No
Kitchen/Living	ATB-004-01 B	n/a	2400	5250	n/a	90	N	No

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Kitchen/Living	ATB-004-01 B	n/a	800	4250	n/a	00	E	No
Kitchen/Living	ATB-004-01 B	n/a	700	3100	n/a	00	E	No
Kitchen/Living	ATB-003-01 B	n/a	2400	875	n/a	90	E	No
Hallway/Entry	ATB-004-01 B	n/a	2400	4250	n/a	00	W	No
Hallway/Entry	ATB-004-01 B	n/a	2700	1370	n/a	90	S	No
Study	ATB-004-01 B	n/a	1200	1200	n/a	00	W	No
Study	ATB-004-01 B	n/a	2400	2813	n/a	45	N	No
Lounge Room	ATB-004-01 B	n/a	2700	2925	n/a	45	S	No
Lounge Room	ATB-004-01 B	n/a	1200	2440	n/a	00	W	No

Roof window type and performance

Default* roof windows

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

Custom* roof windows

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

Roof window schedule

Location	Window ID	Window no.	Opening %	Height (mm)	Width (mm)	Orientation	Outdoor shade	Indoor shade
No Data Available								

Skylight type and performance

Skylight ID	Skylight description
GEN-04-008a	Double-glazed clear, Timber and Aluminium Frame
GEN-04-006a	Single-glazed clear, Timber and Aluminium Frame

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m ²)	Orientation	Outdoor shade	Diffuser	Skylight shaft reflectance
Void	GEN-04-008a	n/a	50	1.30	E	None	No	0.50
Void	GEN-04-008a	n/a	50	1.30	E	None	No	0.50
WIR Main	GEN-04-006a	n/a	50	0.50	E	None	No	0.50

External door *schedule*

Location	Height (mm)	Width (mm)	Opening %	Orientation
Garage	2880	5000	90	S

External wall *type*

Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
EW-1	Concrete block, lined	0.30	Light	Anti-glare foil with bulk no gap R2.7	No
EW-2	Brick Veneer	0.30	Light	Anti-glare foil with bulk no gap R2.7	No
EW-3	Fibro Cavity Panel on Battens	0.30	Light	Anti-glare foil with bulk no gap R2.7	No

External wall *schedule*

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Pool Room/Stair	EW-1	2700	7100	E	0	NO
Pool Room/Stair	EW-1	2700	1695	S	0	NO
Pool Room/Stair	EW-2	2700	5395	W	0	NO
Pool Room/Stair	EW-3	2700	5400	N	4200	NO
BathroomLGF	EW-1	2700	3695	S	0	NO
BathroomLGF	EW-2	2700	1695	W	0	NO
Stairs GF	EW-2	3050	5395	W	200	NO
Stairs GF	EW-2	3050	995	N	1500	NO
Main Stairs	EW-3	2730	4295	W	300	YES
Main Stairs	EW-3	2730	995	N	12500	YES
Family Room	EW-3	2730	1400	W	100	YES
Family Room	EW-3	2730	600	S	100	YES
Family Room	EW-3	2730	3000	W	100	NO
Family Room	EW-3	2730	600	N	100	YES
Family Room	EW-3	2730	1600	W	100	YES
Family Room	EW-3	2730	2495	N	100	YES
Family Room	EW-3	2730	3095	S	100	NO
Void	EW-3	2730	1590	S	100	YES
Main Bedroom 1	EW-3	2730	4900	S	1600	NO
Main Bedroom 1	EW-3	2730	2700	W	100	YES
Main Bedroom 1	EW-3	2730	600	N	0	YES
Main Bedroom 1	EW-3	2730	4000	E	25	NO
WIR Main	EW-3	2730	2090	E	650	YES
ENS Main	EW-3	2730	895	E	1675	YES
ENS Main	EW-3	2730	1000	N	16800	YES

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
ENS Main	EW-3	2730	2595	E	675	NO
WC	EW-3	2730	1090	E	1675	YES
Bathroom	EW-3	2730	1895	E	700	YES
Bathroom	EW-3	2730	1000	S	12300	YES
Bedroom 4	EW-3	2730	3859	E	382	YES
Bedroom 4	EW-3	2730	700	S	14200	YES
Bedroom 3	EW-3	2730	1000	N	5200	YES
Bedroom 3	EW-3	2730	3962	E	407	NO
Bedroom 3	EW-3	2730	700	S	18000	YES
Bedroom 2	EW-3	2730	4095	W	1300	NO
Bedroom 2	EW-3	2730	4500	N	1100	NO
Bedroom 2	EW-3	2730	4095	E	1775	YES
Hallway FF	EW-3	2730	7295	W	1300	YES
Garage	EW-1	3050	5800	S	500	NO
Garage	EW-1	3050	3000	W	5700	YES
Garage	EW-1	3050	2295	E	300	YES
Garage	EW-1	3050	1100	N	300	YES
Garage	EW-1	3050	5800	E	200	NO
Bathroom/WC	EW-1	3050	1690	E	300	NO
Kitchen/Living	EW-2	3050	4300	S	200	YES
Kitchen/Living	EW-2	3050	1695	W	200	NO
Kitchen/Living	EW-2	3050	4295	N	1500	NO
Kitchen/Living	EW-3	3050	6000	N	4300	NO
Kitchen/Living	EW-1	3050	12095	E	300	NO
Hallway/Entry	EW-2	3050	4290	W	200	YES
Hallway/Entry	EW-2	3050	1690	S	3500	YES
Study	EW-2	3050	3995	W	300	NO
Study	EW-2	3050	3100	N	500	YES
Lounge Room	EW-2	3050	1200	E	7700	YES
Lounge Room	EW-2	3050	3700	S	2300	NO
Lounge Room	EW-2	3050	4695	W	300	NO

Internal wall type

Wall ID	Wall type	Area (m ²)	Bulk insulation
IW-1 - Cavity wall, direct fix plasterboard, single gap		136.00	Bulk Insulation, No Air Gap R2
IW-2 - Cavity wall, direct fix plasterboard, single gap		216.00	No insulation

Floor type

Location	Construction	Area (m ²)	Sub-floor ventilation	Added insulation (R-value)	Covering
Pool Room/Stair	Concrete Slab on Ground 275mm	31.80	None	No Insulation	Ceramic Tiles 8mm
Bathroom/LGF	Concrete Slab on Ground 275mm	6.00	None	No Insulation	Ceramic Tiles 8mm
Stairs GF/Pool Room/Stair	Concrete Above Plasterboard 150mm	5.10		No Insulation	Ceramic Tiles 8mm
Main Stairs/Hallway/Entry	Concrete Above Plasterboard 275mm	4.10		No Insulation	Carpet 10mm
Family Room/Study	Concrete Above Plasterboard 275mm	12.90		No Insulation	Carpet 10mm
Family Room/Lounge Room	Concrete Above Plasterboard 275mm	6.50		No Insulation	Carpet 10mm
Void/Hallway/Entry	Concrete Above Plasterboard 275mm	7.20		No Insulation	Cork Tiles or Parquetry 8mm
Main Bedroom 1/Garage	Concrete Above Plasterboard 275mm	20.80		No Insulation	Cork Tiles or Parquetry 8mm
Main Bedroom 1/LND	Concrete Above Plasterboard 275mm	0.60		No Insulation	Cork Tiles or Parquetry 8mm
Main Bedroom 1/Hallway/Entry	Concrete Above Plasterboard 275mm	2.50		No Insulation	Cork Tiles or Parquetry 8mm
WIR Main/Garage	Concrete Above Plasterboard 275mm	6.30		No Insulation	Cork Tiles or Parquetry 8mm
ENS Main/Garage	Concrete Above Plasterboard 275mm	0.90		No Insulation	Ceramic Tiles 8mm
ENS Main/Bathroom/WC	Concrete Above Plasterboard 275mm	5.60		No Insulation	Ceramic Tiles 8mm
ENS Main/LND	Concrete Above Plasterboard 275mm	2.30		No Insulation	Ceramic Tiles 8mm
ENS Main/Kitchen/Living	Concrete Above Plasterboard 275mm	0.80		No Insulation	Ceramic Tiles 8mm
WC/LND	Concrete Above Plasterboard 275mm	2.20		No Insulation	Ceramic Tiles 8mm
WC/Pantry	Concrete Above Plasterboard 275mm	0.50		No Insulation	Ceramic Tiles 8mm
WC/Hallway/Entry	Concrete Above Plasterboard 275mm	0.70		No Insulation	Ceramic Tiles 8mm
Bathroom/Pantry	Concrete Above Plasterboard 275mm	2.70		No Insulation	Ceramic Tiles 8mm
Bathroom/Kitchen/Living	Concrete Above Plasterboard 275mm	2.00		No Insulation	Ceramic Tiles 8mm
Bathroom/Hallway/Entry	Concrete Above Plasterboard 275mm	3.10		No Insulation	Ceramic Tiles 8mm
Bedroom 4/Kitchen/Living	Concrete Above Plasterboard 275mm	16.90		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 3/Kitchen/Living	Concrete Above Plasterboard 275mm	16.60		No Insulation	Carpet 10mm
Bedroom 3	Suspended Concrete Slab 275mm	1.00	Totally Open	Bulk Insulation in Contact with Floor R2.5	Cork Tiles or Parquetry 8mm
Bedroom 2	Suspended Concrete Slab 275mm	18.20	Totally Open	Bulk Insulation in Contact with Floor R2.5	Cork Tiles or Parquetry 8mm
Hallway FF/LND	Concrete Above Plasterboard 275mm	0.70		No Insulation	Carpet 10mm
Hallway FF/Kitchen/Living	Concrete Above Plasterboard 275mm	8.00		No Insulation	Carpet 10mm
Hallway FF/Hallway/Entry	Concrete Above Plasterboard 275mm	6.70		No Insulation	Carpet 10mm
Hallway FF/Study	Concrete Above Plasterboard 275mm	0.70		No Insulation	Carpet 10mm

Location	Construction	Area (m ²)	Sub-floor ventilation	Added insulation (R-value)	Covering
Garage	Suspended Concrete Slab 275mm	44.10	Enclosed	Bulk Insulation in Contact with Floor R2.5	Bare
Bathroom/WC	Suspended Concrete Slab 275mm	6.20	Enclosed	Bulk Insulation in Contact with Floor R2.5	Ceramic Tiles 8mm
LND	Suspended Concrete Slab 275mm	5.60	Enclosed	Bulk Insulation in Contact with Floor R2.5	Cork Tiles or Parquetry 8mm
Pantry	Suspended Concrete Slab 275mm	3.10	Enclosed	Bulk Insulation in Contact with Floor R2.5	Cork Tiles or Parquetry 8mm
Kitchen/Living/Pool Room/Stair	Concrete Above Plasterboard 275mm	26.40		No Insulation	Carpet 10mm
Kitchen/Living/BathroomLGF	Concrete Above Plasterboard 275mm	6.20		No Insulation	Carpet 10mm
Kitchen/Living	Suspended Concrete Slab 275mm	50.70	Enclosed	Bulk Insulation in Contact with Floor R2.5	Cork Tiles or Parquetry 8mm
Hallway/Entry	Suspended Concrete Slab 275mm	27.20	Enclosed	Bulk Insulation in Contact with Floor R2.5	Cork Tiles or Parquetry 8mm
Study	Suspended Concrete Slab 275mm	14.40	Enclosed	Bulk Insulation in Contact with Floor R2.5	Carpet 10mm
Lounge Room	Suspended Concrete Slab 275mm	17.10	Enclosed	Bulk Insulation in Contact with Floor R2.5	Carpet 10mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Pool Room/Stair	Concrete Above Plasterboard	No Insulation	No
BathroomLGF	Concrete Above Plasterboard	No Insulation	No
Stairs GF	Concrete, Plasterboard	Bulk Insulation R5	No
Main Stairs	Plasterboard	Bulk Insulation R5	No
Family Room	Plasterboard	Bulk Insulation R3.5	No
Void	Plasterboard	Bulk Insulation R3.5	No
Main Bedroom 1	Plasterboard	Bulk Insulation R3.5	No
WIR Main	Plasterboard	Bulk Insulation R3.5	No
ENS Main	Plasterboard	Bulk Insulation R3.5	No
WC	Plasterboard	Bulk Insulation R3.5	No
Bathroom	Plasterboard	Bulk Insulation R3.5	No
Bedroom 4	Plasterboard	Bulk Insulation R3.5	No
Bedroom 3	Plasterboard	Bulk Insulation R3.5	No
Bedroom 2	Plasterboard	Bulk Insulation R3.5	No
Hallway FF	Plasterboard	Bulk Insulation R5	No
Garage	Concrete, Plasterboard	Bulk Insulation R5	No
Garage	Concrete Above Plasterboard	No Insulation	No
Bathroom/WC	Concrete, Plasterboard	Bulk Insulation R5	No
Bathroom/WC	Concrete Above Plasterboard	No Insulation	No
LND	Concrete Above Plasterboard	No Insulation	No
Pantry	Concrete Above Plasterboard	No Insulation	No
Kitchen/Living	Concrete, Plasterboard	Bulk Insulation R5	No

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Kitchen/Living	Concrete Above Plasterboard	No Insulation	No
Hallway/Entry	Concrete, Plasterboard	Bulk Insulation R5	No
Hallway/Entry	Concrete Above Plasterboard	No Insulation	No
Study	Concrete, Plasterboard	Bulk Insulation R5	No
Study	Concrete Above Plasterboard	No Insulation	No
Lounge Room	Concrete, Plasterboard	Bulk Insulation R5	No
Lounge Room	Concrete Above Plasterboard	No Insulation	No

Ceiling penetrations*

Location	Quantity	Type	Diameter (mm ²)	Sealed/unsealed
No Data Available				

Ceiling fans

Location	Quantity	Diameter (mm)
Pool Room/Stair	1	1200
Main Bedroom 1	1	1200
Bedroom 4	1	1200
Bedroom 3	1	1200
Bedroom 2	1	1200
Study	1	1200

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Waterproofing Membrane	No Insulation, Only an Air Gap	0.50	Medium
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.8	0.50	Medium

Explanatory notes

About this report

A NatHERS rating is a comprehensive, dynamic computer modelling evaluation of a home, using the floorplans, elevations and specifications to estimate an energy load. It addresses the building layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings), but does not cover the water or energy use of appliances or energy production of solar panels.

Ratings are based on a unique climate zone where the home is located and are generated using standard assumptions, including occupancy patterns and thermostat settings. The actual energy consumption of a home may vary significantly from the predicted energy load, as the assumptions used in the rating will not match actual usage patterns. For example, the number of occupants and personal heating or cooling preferences will vary.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparing different dwelling designs and to demonstrate that the design meets the energy efficiency requirements in the National Construction Code. Homes that are energy efficient use less energy, are warmer on cool days, cooler on hot days and cost less to run. The higher the star rating the more thermally efficient the dwelling is.

Accredited assessors

To ensure the NatHERS Certificate is of a high quality, always use an accredited or licenced assessor. NatHERS accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

Australian Capital Territory (ACT) licensed assessors may only produce assessments for regulatory purposes using software for which they have a licence endorsement. Licence endorsements can be confirmed on the ACT licensing register

AAOs have specific quality assurance processes in place, and continuing professional development requirements, to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any ongoing training requirements.

Any questions or concerns about this report should be directed to the assessor in the first instance. If the assessor is unable to address these questions or concerns, the AAO specified on the front of this certificate should be contacted.

Disclaimer

The format of the NatHERS Certificate was developed by the NatHERS Administrator. However the content of each individual certificate is entered and created by the assessor to create a NatHERS Certificate. It is the responsibility of the assessor who prepared this certificate to use NatHERS accredited software correctly and follow the NatHERS Technical Notes to produce a NatHERS Certificate.

The predicted annual energy load in this NatHERS Certificate is an estimate based on an assessment of the building by the assessor. It is not a prediction of actual energy use, but may be used to compare how other buildings 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, indoor air temperature and local climate.

Not all assumptions that may have been 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.

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.
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.
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 10m 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 .
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
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.
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.
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).