Nationwide House Energy Rating Scheme® NatHERS® Certificate No. IYYEI65POO

Generated on 25 Jun 2025 using FirstRate5; 5.5.5a (3.22)

Property

Address Primary, 3 Margaret Lane,

Caerleon, NSW, 2850

Lot/DP 1223/DP1302496

NCC Class* Class 1a

Floor/all Floors

Type **New Home**

Plans

Main plan 25037-1/7-05-2025 Prepared by Devine Drafting & Design

Construction and environmen

Assessed floor area [m2]* **Exposure type** Conditioned* 150.1 suburban

Unconditioned* 42.8 NatHERS climate zone

Total 192.9 65 Orange AP

30.2 Garage



ccredited assessor

Mathew Pallett Name

Business name Wollongong Energy Efficiency

Email Phone

HERA10332 Accreditation No.

Assessor Accrediting Organisation

Declaration of interest

No

NCC Requirements

NCC provisions Volume 2 State/Territory variation

National Construction Code (NCC) requirements

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

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

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

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

Thermal performance star rating



NATIONWIDE **ENERGY RATING SCHEME**

153.5 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 149 4.5 Load limits N/A N/A

Features determining load limits

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

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

Verification

To verify this certificate, scan the QR code or visit https://w ww.fr5.com.au/QRCodeLand ing?PublicId=IYYEI65POO When using either link, ensure you are visiting www.fr5.com.au.





About the ratings

Thermal performance rating

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

Whole of Home performance rating

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

Heating & Cooling Load Limits

Additional information

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

Setting options:

Floor type:

CSOG - Concrete Slab on Ground

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

NA - Not Applicable

NCC climate Zone 1 or 2:

Yes

Nο

NA - not applicable

Outdoor living area:

Yes

No

NA - not applicable

Outdoor living area ceiling fan:

Yes

No

NA - not applicable



Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

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

Energy use:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:



Certificate check	Approval	stage	Construction stage	tion	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked. Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Genuine certificate check		U 0,		0 %	U
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			di.	\ .	
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			h =		
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the <i>'Floor type'</i> 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				20 20	
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	20	_	7/5		
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					,
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?					



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Additional notes

Lighting as per NatHERS Spec



Room schedule

Room	Zone Type	Area [m²]
ENSUITE	nightTime	6.9
BED 1	bedroom	18
WIR	nightTime	4.5
LINEN	dayTime	2.4
LOUNGE	living	12.2
ENTRY	dayTime	4.2
GARAGE	garage	30.2
BED 2	bedroom	10.8
BED 3	bedroom	10.8
BATH	unconditioned	9.4
BED 4	bedroom	10.9
WIP	dayTime	2.5
LAUNDRY	unconditioned	3.1
MAIN HALL	dayTime	17.9
BED HALL	dayTime	3.7
KITCHEN - LIVING	kitchen	45.3

Window and glazed door type and performance

Default* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
No Data Availa	able					

Custom* windows

				Substitution tolerance ranges			
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit		
BRD-024-04 A	ESS Double Hung Window (52mm) SG 4EA	4.44	0.62	0.59	0.65		
BRD-001-13 A	ESS Sliding Window (52mm) SG 4EA	4.57	0.63	0.6	0.66		
BRD-030-09 A	ESS Hinged Door (100mm) SG 4EA	4.52	0.53	0.5	0.56		
BRD-044-04 A	SIG Sliding Window (100mm) SG 5Clr	6.57	0.68	0.65	0.71		
BRD-067-01 A	COM Hinged/Pivot Door SG 5Clr	6.2	0.58	0.55	0.61		
BRD-022-24 A	Al Sliding Door DG 4EA/12/4	3.4	0.53	0.5	0.56		

Window and glazed door schedule

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Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
ENSUITE	BRD-024-04 A	W13	1800	730	double_hung	45.0	W	No
ENSUITE	BRD-001-13 A	W12	772	610	sliding	45.0	N	No
BED 1	BRD-001-13 A	W11	1030	1810	sliding	45.0	N	No
LOUNGE	BRD-024-04 A	W1	1800	850	double_hung	45.0	W	No
LOUNGE	BRD-024-04 A	W2	1800	850	double_hung	45.0	W	No
ENTRY	BRD-030-09 A	D1	2040	920	casement	60.0	W	No
BED 2	BRD-001-13 A	W3	1030	1570	sliding	45.0	S	No
BED 3	BRD-001-13 A	W4	1030	1570	sliding	45.0	S	No
BATH	BRD-044-04 A	W5	1030	1570	sliding	45.0	S	No
BED 4	BRD-001-13 A	W6	1030	1570	sliding	45.0	E	No
LAUNDRY	BRD-067-01 A	D2	2040	820	casement	60.0	E	No
KITCHEN - LIVING	BRD-001-13 A	W7	600	1570	sliding	45.0	E	No
KITCHEN - LIVING	BRD-001-13 A	W8	1800	1570	sliding	30.0	E	No
KITCHEN - LIVING	BRD-001-13 A	W9	1800	1570	sliding	30.0	E	No
KITCHEN - LIVING	BRD-022-24 A	D3	2100	3598	sliding	20.0	N	No

Roof window* type and performance value

Default* roof windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
N- D-t- Assett-t-					

No Data Available

Custom* roof windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
N B I A 3111					

No Data Available

Roof window* schedule

			Opening	Area	width		Outdoor	Indoor
Location	Window ID	Window no.	%	[m²]	[mm]	Orientation	shade	shade
No Data Ava	ilahle							

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
GEN-04-004a	DC: Double Clear	



Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]		Orient- ation	Outdoor shade	Diffuser
MAIN HALL	GEN-04-004a	S1	1000	0.4	S	None	No

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
GARAGE	2100	4800	100.0	W

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wal wrap*
1	01 - BRICK VENEER ANTIGLARE + R2.7	0.8	Dark	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	Yes
2	01 - BRICK VENEER ANTIGLARE + R2.7	0.5	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	Yes
3	01 - RES PARTY WALL + R2.5	0.5	Medium	Glass fibre batt: R2.5 (R2.5);Glass fibre batt: R2.5 (R2.5)	No
4	FR5 - Double Brick	0.8	Dark		No
5	01 - BRICK VENEER ANTIGLARE + R2.7	0.8	Dark		Yes

External wall schedule

					Horizontal shading	
	M-11 IB	Height	Width	0-14-41	feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
ENSUITE	1	2650	2993	W	542	Yes
ENSUITE	2	2650	1237	N	541	Yes
ENSUITE	1	2650	563	N	541	Yes
BED 1	3	2650	5139	E	0	No
BED 1	1	2650	3501	N	541	Yes
LINEN	3	2650	1448	E	0	No
LOUNGE	1	2650	1485	W	541	No
LOUNGE	1	2650	1706	W	1541	No
LOUNGE	1	2650	1003	s	2141	Yes
LOUNGE	1	2650	3010	N	541	Yes
ENTRY	1	2650	1499	W	2544	Yes
GARAGE	4	2736	5499	W	590	Yes
GARAGE	5	2736	5499	S	520	Yes
BED 2	1	2650	2997	S	491	Yes
BED 3	1	2650	2997	s	491	Yes



BATH	1	2650	3729	s	491	Yes
BED 4	1	2650	3001	s	491	Yes
BED 4	1	2650	3619	Е	541	Yes
LAUNDRY	1	2650	1613	Е	541	Yes
MAIN HALL	3	2650	1113	W	0	No
MAIN HALL	3	2650	6430	N	0	No
MAIN HALL	3	2650	1880	Е	0	No
KITCHEN - LIVING	1	2650	1407	W	0	Yes
KITCHEN - LIVING	3	2650	7690	W	0	No
KITCHEN - LIVING	1	2650	9698	Е	541	Yes
KITCHEN - LIVING	1	2650	4750	N	3541	Yes

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	119.5	
2	01 - INT WALL + R2	67.2	Glass fibre batt: R2.5 (R2.5)

Floor type

<i>31</i>			Cub floor	A data di imperior	··
Location	Construction	Area [m²]	Sub-floor ventilation	Added insula	Covering
ENSUITE	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	4.9	Enclosed	R0.0	Tiles
ENSUITE	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	2	Enclosed	R0.0	Tiles
BED 1	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	16.4	Enclosed	R0.0	Carpet
BED 1	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	1.6	Enclosed	R0.0	Carpet
WIR	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	4.5	Enclosed	R0.0	Carpet
LINEN	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	2.4	Enclosed	R0.0	Vinyl
LOUNGE	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	9.9	Enclosed	R0.0	Carpet
LOUNGE	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	2.3	Enclosed	R0.0	Carpet
ENTRY	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	4.2	Enclosed	R0.0	Vinyl
GARAGE	FR5 - 225mm waffle pod, 85mm concrete (R0.60)	30.2	Enclosed	R0.0	none
BED 2	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	1.4	Enclosed	R0.0	Carpet
BED 2	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	9.5	Enclosed	R0.0	Carpet

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BED 3	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	1.4	Enclosed	R0.0	Carpet
BED 3	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	9.5	Enclosed	R0.0	Carpet
BATH	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	1.7	Enclosed	R0.0	Tiles
ВАТН	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	7.8	Enclosed	R0.0	Tiles
BED 4	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	2.8	Enclosed	R0.0	Carpet
BED 4	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	8.1	Enclosed	R0.0	Carpet
WIP	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	2.5	Enclosed	R0.0	Vinyl
LAUNDRY	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	0.7	Enclosed	R0.0	Tiles
LAUNDRY	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	2.3	Enclosed	R0.0	Tiles
MAIN HALL	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	17.9	Enclosed	R0.0	Vinyl
BED HALL	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	3.7	Enclosed	R0.0	Vinyl
KITCHEN - LIVING	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	4.4	Enclosed	R0.0	Vinyl
KITCHEN - LIVING	FR5 - 300mm waffle pod, 85mm concrete (R0.63)	41	Enclosed	R0.0	Vinyl

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
ENSUITE	Plasterboard	R6.0	Yes
ENSUITE	Plasterboard	R7.0	Yes
BED 1	Plasterboard	R6.0	Yes
BED 1	Plasterboard	R7.0	Yes
WIR	Plasterboard	R6.0	Yes
LINEN	Plasterboard	R6.0	Yes
LOUNGE	Plasterboard	R6.0	Yes
LOUNGE	Plasterboard	R7.0	Yes
ENTRY	Plasterboard	R6.0	Yes
GARAGE	Plasterboard	R7.0	Yes
BED 2	Plasterboard	R3.0	Yes
BED 2	Plasterboard	R6.0	Yes
BED 3	Plasterboard	R3.0	Yes
BED 3	Plasterboard	R6.0	Yes

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7.1 Star Rating as of 25 Jun 2025

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BATH	Plasterboard	R3.0	Yes
BATH	Plasterboard	R6.0	Yes
BED 4	Plasterboard	R7.0	Yes
BED 4	Plasterboard	R6.0	Yes
WIP	Plasterboard	R6.0	Yes
LAUNDRY	Plasterboard	R7.0	Yes
LAUNDRY	Plasterboard	R6.0	Yes
MAIN HALL	Plasterboard	R6.0	Yes
BED HALL	Plasterboard	R6.0	Yes
KITCHEN - LIVING	Plasterboard	R7.0	Yes
KITCHEN - LIVING	Plasterboard	R6.0	Yes

Ceiling penetrations*

3 /			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
ENSUITE	1	Exhaust Fans	250	250	Sealed
ENSUITE	1	Downlights	50	50	Sealed
BED 1	4	Downlights	50	50	Sealed
WIR	1	Downlights	50	50	Sealed
LINEN	1	Downlights	50	50	Sealed
LOUNGE	2	Downlights	50	50	Sealed
ENTRY	1	Downlights	50	50	Sealed
BED 2	2	Downlights	50	50	Sealed
BED 3	2	Downlights	50	50	Sealed
BATH	1	Downlights	50	50	Sealed
BATH	1	Exhaust Fans	250	250	Sealed
BED 4	2	Downlights	50	50	Sealed
WIP	1	Downlights	50	50	Sealed
LAUNDRY	1	Downlights	50	50	Sealed
MAIN HALL	3	Downlights	50	50	Sealed
BED HALL	1	Downlights	50	50	Sealed
KITCHEN - LIVING	8	Downlights	50	50	Sealed
KITCHEN - LIVING	1	Exhaust Fans	250	250	Sealed

Ceiling fans

Location Quantity Diameter [mm]

No Data Available

Roof type

Added insulation

Construction [R-value] Solar absorptance Roof shade [colour]



Cont:Attic-Continuous 1.3 0.33 Light

Thermal bridging schedule for steel frame elements

Steel section dimensions

Steel thickness

Thermal break

Building element

[height x width, mm]

Frame spacing [mm] [BMT,mm]

] [R-value]

No Data Available

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 performance capacity

No Whole of Home performance assessment conducted for this certificate.

Heating system

Appliance/ system type Location Fuel type Minimum efficiency/ Recommended capacity

No Whole of Home performance assessment conducted for this certificate.

Hot water system

Minimum

efficiency/ Hot Water CER

Assessed daily

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

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

Appliance/ system type Fuel type performance capacity

No Whole of Home performance assessment conducted for this certificate.

Onsite renewable energy schedule

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

System type Orientation System size or generation capacity

No Whole of Home performance assessment conducted for this certificate.

Battery schedule

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

System type Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

HOUSE

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

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

IYYEI65POO NatHERS Certificate

7.1 Star Rating as of 25 Jun 2025

HOUSE

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