Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011765278-01

Generated on 06 Mar 2025 using BERS Pro v5.2.4 (3.23)

Property

Address 18A Yamba Street,

HAWKS NEST, NSW, 2324

Lot/DP Lot 85 DP 16379

NCC class* 1a

Floor/all Floors G of 2 floors

Type New Home

Plans

Garage

Main plan Condor 2019631 A
Prepared by Masterton Homes

Construction and environment

Assessed floor area [m2]* Exposure type
Conditioned* 195.7 Suburban

Unconditioned* 5.9 NatHERS climate zone
Total 238.7 Nathers climate zone



37.0

Name Ian Fry

Business name Frys Energywise

Email comply@frysenergywise.com.au

Phone 02 9899 2825 Accreditation No. DMN/12/1441

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration completed: no conflicts

NCC Requirements

NCC provisions Volume Two

Strate/Territory variation Ye

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 HOUSE ENERGY RATING SCHEME

32.6 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

Features determining load limits

Floor Type
(lowest conditioned area)

NCC climate zone 1 or 2

Outdoor living area

Outdoor living area ceiling fan

No

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 hstar.com.au/QR/Generate? p=BJQjUmPYF. When using either link, ensure you are visiting hstar.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.

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

Vο

NA - Not Applicable

Outdoor Living Area Ceiling Fan:

Yes

No

NA - Not Applicable



No Whole
of Home
performance
assessment
conducted for this
certificate

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

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7.1 Star Rating as of 06 Mar 2025

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Certificate check	Approva	I Stage	Construction Stage		
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	Consen	Builder	Consen	Occupa
Genuine certificate check			'		
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check					
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					
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 high-rise 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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7.1 Star Rating as of 06 Mar 2025

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	Approva	l Stage	Construe Stage		
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	uded in t	he 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 Hom	e performa	ance 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	NatHERS	assessi	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. Addi but are not limited to: condensation, structural and fire safety requirements and any st requirements.					
Additional notes					
Where not noted on plans, default selections to floor coverings and external	colours ha	ave been u	sed in this	assessme	ent,
as noted in the NatHERS Technical Notes. Alternative selections past this po	oint can be	made to f	loor cover	ings and	
external colours, without requiring an amended certificate				-	



Room schedule

Room	Zone Type	Area [m²]
Garage 1	Garage	37.02
Entry	Daytime	23.16
Butlers	Daytime	5.03
Guest Bed	Bedroom	14.87
Bath	Daytime	3.99
Ldry	Unconditioned	5.94
Kitchen/Living1	Kitchen/Living	49.66
Bedroom 2	Bedroom	14.12
Wil	Daytime	3.56
Bedroom 3	Bedroom	13.43
Bath	Unconditioned	7.92
Lounge	Living	32.9
Bedroom 4	Bedroom	12.72
Wir	Nighttime	4.22
Ens	Nighttime	4.87
Bedroom 1	Bedroom	18.6

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	31100	SHGC lower limit	SHGC upper limit	
TIM-001-01 W	Timber A SG Clear	5.4	0.56	0.53	0.59	

Custom windows*

Window ID	Window	Maximum U-value*		Substitution to	lerance ranges
Willidow ID	Description			SHGC lower limit	SHGC upper limit
DOW-001-003	Aluminium Sliding Window SG 4EA	4.5	0.62	0.59	0.66
DOW-006-006	Aluminium Sliding Door SG 4EA	4.3	0.61	0.58	0.64
DOW-001-001	Aluminium Sliding Window SG 3Clr	6.4	0.75	0.71	0.79



Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Guest Bed	DOW-001-003-001	W2	1800	850	Sliding	30	N	No
Guest Bed	DOW-001-003-001	W3	1800	850	Sliding	30	N	No
Ldry	TIM-001-01 W	W4	1000	881	Casement	90	Е	No
Kitchen/Living1	DOW-001-003-001	W5	600	2410	Sliding	45	S	No
Kitchen/Living1	DOW-006-006-001	W6	2400	3048	Sliding	60	S	No
Kitchen/Living1	DOW-006-006-001	W7	2400	2410	Sliding	45	W	No
Bedroom 2	DOW-001-003-001	W15	857	1810	Sliding	10	S	No
Bedroom 3	DOW-001-003-001	W14	857	1810	Sliding	10	S	No
Bath	DOW-001-001-001	W16	857	1210	Sliding	10	W	No
Lounge	DOW-001-003-001	W10	1200	1210	Sliding	10	N	No
Lounge	DOW-001-003-001	W11	1200	1210	Sliding	10	N	No
Lounge	DOW-001-003-001	W12	1800	1210	Sliding	30	E	No
Bedroom 4	DOW-001-003-001	W13	857	1810	Sliding	10	E	No
Ens	DOW-001-001-001	W17	857	610	Sliding	10	W	No
Bedroom 1	DOW-001-003-001	W8	1200	1210	Sliding	10	N	No
Bedroom 1	DOW-001-003-001	W9	1200	1210	Sliding	10	N	No

Roof window* type and performance value

Default roof windows*

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

Custom roof windows*

Window ID	Window	Maximum	Maximum SHGC*		Substitution tolerance ranges		
	Description	U-value*	SHGC"	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								



Window Window Height Width Outdoor Indoor **Opening** Location Orientation ID [mm] [mm] shade % shade no.

Skylight* type and performance

Skylight ID Skylight description Skylight shaft reflectance

No Data Available

Skylight* schedule

Location Skylight Skylight Skylight Shaft length ID No. [mm] Area Orientation Outdoor Shade Diffuser

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage 1	2400	4870	90	N	
Entry	2388	1260	90	N	
Ldry	1088	881	90	Е	

External wall type

Wall ID	Wall type	Solar Wall shad absorptance [colour]	de Bulk insulation [R-value]	Reflective wall wrap*
EW-1	Timber Stud Frame Brick Veneer	0.30	No insulation	No
EW-2	Single Skin Brick	0.30	No insulation	No
EW-3	Timber Stud Frame Brick Veneer	0.30	Anti-glare foil with bulk no gap R2.5	No
EW-4	Fibro Timber Stud Frame Panel Direct Fix	0.30	Anti-glare foil with bulk no gap R2.5	No
EW-5	Fibro Timber Stud Frame Panel Direct Fix	0.50	Anti-glare foil with bulk no gap R2.5	No
EW-6	Timber Stud Frame Brick Veneer	0.50	Anti-glare foil with bulk no gap R2.5	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Garage 1	EW-1	2775	6095	W	0	No
Garage 1	EW-2	2775	6195	N	0	No
Entry	EW-3	2700	1890	N	2300	No
Entry	EW-4	2700	2090	E	0	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Butlers	EW-3	2700	2495	S	6800	No
Butlers	EW-3	2700	2095	W	0	No
Guest Bed	EW-3	2700	1800	W	2100	No
Guest Bed	EW-3	2700	4300	N	500	No
Guest Bed	EW-3	2700	3495	E	0	No
Ldry	EW-3	2700	2990	E	0	No
Kitchen/Living1	EW-3	2700	5095	E	0	No
Kitchen/Living1	EW-3	2700	9000	S	0	No
Kitchen/Living1	EW-3	2700	3700	W	5000	No
Kitchen/Living1	EW-3	2700	895	S	6800	No
Bedroom 2	EW-3	2700	3595	W	600	No
Bedroom 2	EW-3	2700	4195	S	600	No
Wil	EW-3	2700	1490	S	600	No
Bedroom 3	EW-3	2700	4495	E	600	No
Bedroom 3	EW-3	2700	3295	S	600	No
Bath	EW-4	2700	2490	W	600	No
Lounge	EW-3	950	1800	W	0	No
Lounge	EW-5	1750	1800	W	600	No
Lounge	EW-3	950	4400	N	0	No
Lounge	EW-5	1750	4400	N	500	No
Lounge	EW-4	2700	5595	Е	600	No
Bedroom 4	EW-3	2700	3590	Е	600	No
Ens	EW-4	2700	1690	W	600	No
Bedroom 1	EW-4	2700	4095	W	600	No
Bedroom 1	EW-6	950	4595	N	0	No
Bedroom 1	EW-5	1750	4595	N	600	No

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	16.74	Bulk Insulation, No Air Gap R2.5
IW-002	Timber Stud Frame, Direct Fix Plasterboard	183.06	No insulation



Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage 1	Waffle pod slab 225 mm 100mm	36.90	None	Waffle Pod 225mm	Bare
Entry	Waffle pod slab 225 mm 100mm	23.16	None	Waffle Pod 225mm	20/80 Carpet 10mm/Ceramic
Butlers	Waffle pod slab 225 mm 100mm	5.03	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Guest Bed	Waffle pod slab 225 mm 100mm	14.87	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bath	Waffle pod slab 225 mm 100mm	3.99	None	Waffle Pod 225mm	Ceramic Tiles 8mm
_dry	Waffle pod slab 225 mm 100mm	5.94	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Kitchen/Living1	Waffle pod slab 225 mm 100mm	49.66	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bedroom 2 / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	14.11		No Insulation	Carpet+Rubber Underlay 18mm
Nil / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	3.56		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 3 / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	13.43		No Insulation	Carpet+Rubber Underlay 18mm
Bath / Garage 1	Timber Framed Timber Above Plasterboard 19mm	0.56		No Insulation	Ceramic Tiles 8mm
Bath / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	7.02		No Insulation	Ceramic Tiles 8mm
Lounge / Entry	Timber Framed Timber Above Plasterboard 19mm	4.94		No Insulation	Carpet+Rubber Underlay 18mm
Lounge / Guest Bed	Timber Framed Timber Above Plasterboard 19mm	9.00		No Insulation	Carpet+Rubber Underlay 18mm
_ounge / Bath	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Carpet+Rubber Underlay 18mm
_ounge / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 4 / Entry	Timber Framed Timber Above Plasterboard 19mm	0.86		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 4 / Bath	Timber Framed Timber Above Plasterboard 19mm	2.18		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 4 / Ldry	Timber Framed Timber Above Plasterboard 19mm	5.81		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 4 / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	2.82		No Insulation	Carpet+Rubber Underlay 18mm
Nir / Entry	Timber Framed Timber Above Plasterboard 19mm	3.78		No Insulation	Carpet+Rubber Underlay 18mm
Ens / Garage 1	Timber Framed Timber Above Plasterboard 19mm	4.53		No Insulation	Ceramic Tiles 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bedroom 1 / Garage 1	Timber Framed Timber Above Plasterboard 19mm	11.22		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1 / Entry	Timber Framed Timber Above Plasterboard 19mm	7.11		No Insulation	Carpet+Rubber Underlay 18mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Garage 1	Plasterboard on Timber	No insulation	
Garage 1	Timber Framed Timber Above Plasterboard	No Insulation	
Entry	Timber Framed Timber Above Plasterboard	No Insulation	
Butlers	Plasterboard on Timber	Bulk Insulation R6	
Guest Bed	Timber Framed Timber Above Plasterboard	No Insulation	
Bath	Timber Framed Timber Above Plasterboard	No Insulation	
Ldry	Timber Framed Timber Above Plasterboard	No Insulation	
Kitchen/Living1	Plasterboard on Timber	Bulk Insulation R6	
Kitchen/Living1	Timber Framed Timber Above Plasterboard	No Insulation	
Bedroom 2	Plasterboard on Timber	Bulk Insulation R6	
Bedroom 2	Plasterboard on Timber	Bulk Insulation R3	
Wil	Plasterboard on Timber	Bulk Insulation R6	
Wil	Plasterboard on Timber	Bulk Insulation R3	
Bedroom 3	Plasterboard on Timber	Bulk Insulation R6	
Bedroom 3	Plasterboard on Timber	Bulk Insulation R3	
Bath	Plasterboard on Timber	Bulk Insulation R6	
Bath	Plasterboard on Timber	Bulk Insulation R2	
Lounge	Plasterboard on Timber	Bulk Insulation R6	
Lounge	Plasterboard on Timber	Bulk Insulation R3	
Bedroom 4	Plasterboard on Timber	Bulk Insulation R6	
Bedroom 4	Plasterboard on Timber	Bulk Insulation R3	
Wir	Plasterboard on Timber	Bulk Insulation R6	
Ens	Plasterboard on Timber	Bulk Insulation R6	
Ens	Plasterboard on Timber	Bulk Insulation R3	
Bedroom 1	Plasterboard on Timber	Bulk Insulation R6	



Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Bedroom 1	Plasterboard on Timber	Bulk Insulation R3	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Bath	1	Exhaust Fans	300	Sealed
Kitchen/Living1	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Guest Bed	1	1200
Kitchen/Living1	1	1200
Bedroom 2	1	1200
Bedroom 3	1	1200
Lounge	1	1200
Bedroom 4	1	1200

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.30	Light

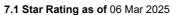
Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]
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	Lo	cation	Minimum Fuel type 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	Fuel type	Hot Water CER Zone	Minimum efficiency /STC	Zone 3 STC		ubstitution e ranges upper limit	Assessed daily load [litres]
No Data Available							
Pool/spa equipment							
Appliance/ system type	Fuel type		Minimum efficiency/ performance		Recommended capacity		
No Data Available							
Onsite Renewabl	e Energy Sch	edule					
System Type	Orientation		Syst	em Size O	r Generation	Capacity	
No Data Available							
Battery Schedule							
System Type	Size [Ba	ttery Storag	e 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 Fenestration Rating Council
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, 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) for 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)