Nationwide House Energy Rating Scheme® NatHERS® Certificate No.

Generated on 31 Mar 2025 using Hero 4.1 (Chenath v3.23)

Property

Address Unit 03, 3 Lauderdale Ave, Fairlight,

NSW, 2094

Lot/DP

NCC Class* 2

Floor/all Floors 3 of 1 floors

Type New

Plans

Main Plan

Prepared by BAXTER & JACOBSON ARCHITECTS

Construction and environment

Assessed floor area (m²)* Exposure Type

Conditioned* 198.9 Suburban

Unconditioned* 5.5 NatHERS climate zone

Total 204.3 56 - Mascot AMO

Garage 0.0



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Accreditation No. 101556

Assessor Accrediting

Organisation

Declaration of interest No C

ABSA

No Conflict of Interest

NCC Requirements

BCA provisions Volume 1

State/Territory variation Yes

National Construction Code (NCC) requirements

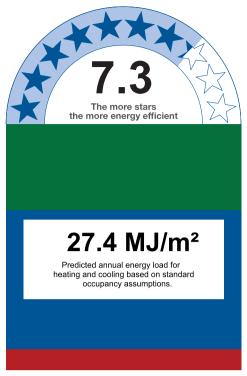
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J2D2(2)(a) and (3) 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



Thermal performance (MJ/m²)

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	11.4	16.0
oad limits	33	20

Features determining load limits

Floor type

(lowest conditioned area) CSOG NCC climate zone 1 or 2 N Outdoor living area N Outdoor living area ceiling fan N

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

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 and 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: NatHERS heating and cooling load limits* for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

Setting options:

Floor type:

CSOG - Concrete Slab on Ground

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

NA - Not Applicable

NCC climate Zone 1 or 2:

Yes

No

NA - Not Applicable

Outdoor living area:

Yes

No

NA - Not Applicable

Outdoor living area ceiling fan:

Yes

No

NA - Not Applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

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.

Certificate check	Approva	l stage	Construc		
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.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
It is not mandatory to complete this checklist.	Ass	Cor	Buil	Cor	0
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 on the NatHERS-stamped plans?					

Certificate check	Approva	l stage	Construct stage		
Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Additional NCC requirements for thermal performance (not included in	n the Nat	HERS ass	sessment	t)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
Has the insulation been installed according to the NCC requirements?					
Building sealing					
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home	e assessr	nent is no	ot conduc	cted)	
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 Nath ERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?					
Additional NCC Requirements for Services (not included in the NatHE	RS asses	sment)			
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. As include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.	dditional re and any st	quirements ate or territ	that must ory variation	also be sat	isfied ICC

Room schedule

Room	Zone Type	Area (m²)
FAMILY	Living	20.76
BED 3	Bedroom	17.18
Bath	Unconditioned	5.49
BED 2	Bedroom	12.60
ES	Night Time	11.60
LDY	Day Time	4.55
WC	Day Time	2.66
ROBE	Night Time	7.58
KITCHEN	Kitchen/Living	98.73
BED 1	Bedroom	23.19

Window and glazed door type and performance

Default* windows

Window ID	Window Description	Maximum SHGC*	SHGC substitution tolerance ranges	
		U-value*	lower limit upper limit	
None				

Custom* windows

Window ID	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges	
		U-value*		lower limit	upper limit
A&L-109-061	A&L ComfortSmart Ultra Thermally Broken Sliding Door	2.00	0.43	0.41	0.45
ALS-032-025	92mm Carinya Classic Fixed Window - Single Glazed	4.26	0.46	0.44	0.48
ANE-016-001	Thermaglide Thermally Broken Sashless Window - Double Glazed (Insert into Trend Quantum Insert Frame)	3.01	0.46	0.43	0.48
AWS-092-320	Residential Series 752 High Performance Sliding Window - Double Glazed	3.02	0.46	0.44	0.48
HCW-006-002	Double Hung Window	2.02	0.45	0.43	0.48
SEM-023-006	50mm Thermally Broken Fixed - With Inline Reveal	3.02	0.44	0.42	0.47

Window and glazed door schedule

•	eca addi sene							
Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
BED 1	HCW-006-002	W3.07	2400	2000	Double Hung	22	SSW	None
BED 1	HCW-006-002	W3.08	1500	2100	Double Hung	22	W	None
BED 2	HCW-006-002	W3.11	1500	1800	Double Hung	22	W	None
BED 3	ANE-016-001	W3.13	1500	1800	Double Hung	22	NW	None
BED 3	AWS-092-320	D3.03	2440	1670	Sliding Door	45	ENE	None
Bath	HCW-006-002	W3.12	1500	900	Double Hung	45	W	None
ES	HCW-006-002	W3.10	1500	1200	Double Hung	45	W	None
FAMILY	AWS-092-320	D3.04	2440	3910	Sliding Door	45	NNW	None
FAMILY	AWS-092-320	W3.01	1200	1810	Sliding	45	E	None
KITCHEN	AWS-092-320	W3.03a	925	2950	Sliding	45	E	None
KITCHEN	SEM-023-006	W3.03b	925	1509	Fixed	0	ENE	None
KITCHEN	SEM-023-006	W3.03c	925	774	Fixed	0	SSE	None
KITCHEN	ALS-032-025	W3.05-1	2300	810	Fixed	0	E	None
KITCHEN	ALS-032-025	W3.05-2	2300	998	Fixed	0	SE	None
KITCHEN	ALS-032-025	W3.05-3	2300	743	Fixed	0	SSE	None
KITCHEN	ALS-032-025	W3.05-4	2300	671	Fixed	0	S	None
KITCHEN	ALS-032-025	W3.05-5	2300	485	Fixed	0	SSW	None
KITCHEN	A&L-109-061	D3.02	2740	5290	Sliding	60	SSW	None
KITCHEN	ALS-032-025	W3.06-1	2300	658	Fixed	0	SW	None
KITCHEN	ALS-032-025	W3.06-2	2300	542	Fixed	0	WSW	None
KITCHEN	ALS-032-025	W3.06-3	2300	676	Fixed Double	0	WNW	None
KITCHEN	ANE-016-001	W3.04	1850	2400	Hung	22	E	None
ROBE	HCW-006-002	W3.09	1500	1200	Double Hung	45	W	None

Roof window type and performance value

Default* roof windows

Window ID) Window Description	Maximum SHGC*	SHGC substitution tolerance ranges	
Williad Wild		U-value*	lower limit upper limit	

None

Custom* roof windows

Window ID	Window Description	Maximum SHGC*	SHGC substitution tolerance ranges	
······································		U-value*	lower limit upper limit	

None

Roof window schedule

Location	Window	Window	ow Opening Height Wid	Width	Orient-	Outdoor	Indoor	
Location	ID	no.	%	(mm)	(mm)	ation	shade	shade

None

Skylight type and performance

Skylight ID	Skylight description
None	

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft Are length (mm) (m ²	Outdoor shade	Diffuser	Shaft Reflectance
None						

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
None				

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
CONC-150-PB1	PURPLE - 150 Concrete Wall R2.5	0.50	Medium	2.50	No
CONC-150-PB11	ORANGE/YELLOW - 200 Concrete Wall R2. 5	0.50	Medium	2.50	No
MC-NONREFL-CAV1	BLUE - Metal/150 Concrete Wall R2.5	0.50	Medium	2.50	No

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
					projection (mm)	icutuic

External wall schedule

BED 1 CONC-150-PB11 2950 2526 SSW Yes BED 1 CONC-150-PB1 2950 3976 W Yes BED 2 CONC-150-PB1 2950 2981 W 316 Yes BED 3 CONC-150-PB11 3300 2600 W 266 No BED 3 CONC-150-PB11 3300 404 NW No BED 3 CONC-150-PB11 3300 3153 NW 229 No BED 3 CONC-150-PB11 3300 2701 ENE 5615 No BED 3 CONC-150-PB11 3300 745 NW No BED 3 CONC-150-PB11 2950 1808 W 316 No BED 3 CONC-150-PB1 2950 2743 W No FAMILY CONC-150-PB11 3300 5205 NNW 2927 Yes FAMILY CONC-150-PB11 3300 2618 E 359 Yes	6
BED 2 CONC-150-PB1 2950 2981 W 316 Yes BED 3 CONC-150-PB11 3300 2600 W 266 No BED 3 CONC-150-PB11 3300 404 NW No No BED 3 CONC-150-PB11 3300 3153 NW 229 No BED 3 CONC-150-PB11 3300 2701 ENE 5615 No BED 3 CONC-150-PB11 3300 745 NW No BED 3 CONC-150-PB11 2950 1808 W 316 No BED 3 CONC-150-PB1 2950 2743 W No No ES CONC-150-PB11 3300 5205 NNW 2927 Yes FAMILY CONC-150-PB11 3300 2058 ENE 383 No FAMILY CONC-150-PB11 3800 2618 E 359 Yes KITCHEN MC-NONREFL-CAV1 2950 6937	
BED 3 CONC-150-PB11 3300 2600 W 266 No BED 3 CONC-150-PB11 3300 404 NW No BED 3 CONC-150-PB11 3300 3153 NW 229 No BED 3 CONC-150-PB11 3300 2701 ENE 5615 No BED 3 CONC-150-PB11 3300 745 NW No Bath CONC-150-PB1 2950 1808 W 316 No ES CONC-150-PB1 2950 2743 W No FAMILY CONC-150-PB11 3300 2058 ENE 383 No FAMILY CONC-150-PB11 3300 2618 E 359 Yes KITCHEN MC-NONREFL-CAV1 2950 6937 E Yes	5
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BED 3 CONC-150-PB11 3300 2701 ENE 5615 No BED 3 CONC-150-PB11 3300 745 NW No Bath CONC-150-PB1 2950 1808 W 316 No ES CONC-150-PB1 2950 2743 W No FAMILY CONC-150-PB11 3300 5205 NNW 2927 Yes FAMILY CONC-150-PB11 3300 2058 ENE 383 No FAMILY CONC-150-PB11 3800 2618 E 359 Yes KITCHEN MC-NONREFL-CAV1 2950 6937 E Yes	
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FAMILY CONC-150-PB11 3300 5205 NNW 2927 Yes FAMILY CONC-150-PB11 3300 2058 ENE 383 No FAMILY CONC-150-PB11 3300 2618 E 359 Yes KITCHEN MC-NONREFL-CAV1 2950 6937 E Yes	
FAMILY CONC-150-PB11 3300 2058 ENE 383 No FAMILY CONC-150-PB11 3300 2618 E 359 Yes KITCHEN MC-NONREFL-CAV1 2950 6937 E Yes	
FAMILY CONC-150-PB11 3300 2618 E 359 Yes KITCHEN MC-NONREFL-CAV1 2950 6937 E Yes	3
KITCHEN MC-NONREFL-CAV1 2950 6937 E Yes	
	3
MITCHEN MO NONDEEL COM	;
KITCHEN MC-NONREFL-CAV1 2950 1509 ENE Yes	;
KITCHEN MC-NONREFL-CAV1 2950 774 SSE Yes	;
KITCHEN CONC-150-PB11 2950 810 E 426 No	
KITCHEN CONC-150-PB11 2950 998 SE 1029 No	
KITCHEN CONC-150-PB11 2950 744 SSE 1180 No	
KITCHEN CONC-150-PB11 2950 744 S 1739 No	
KITCHEN CONC-150-PB11 2950 488 SSW 1516 No	
KITCHEN CONC-150-PB11 2950 416 WNW Yes	
KITCHEN CONC-150-PB11 2950 5746 SSW 2421 Yes	}
KITCHEN CONC-150-PB11 2950 416 SE Yes	
KITCHEN CONC-150-PB11 2950 661 SW 1642 No	6

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
KITCHEN	CONC-150-PB11	2950	544	WSW	451	Yes
KITCHEN	CONC-150-PB11	2950	677	WNW	365	Yes
KITCHEN	CONC-150-PB11	2950	460	NW		Yes
KITCHEN	CONC-150-PB11	2950	4914	E		Yes
ROBE	CONC-150-PB1	2950	2432	W		No

Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
CONC-150-PB1	PURPLE - 150 Concrete Wall R2.5	67.4	2.50
CONC-150-PB1	PURPLE - 150 Concrete Wall R2.5	75.9	0.00
CONC-150-PB11	ORANGE/YELLOW - 200 Concrete Wall R2.5	37.2	2.50

Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
BED 1	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	23.2	N/A	1.00	Timber (12mm)
BED 2	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	12.7	N/A	1.00	Timber (12mm)
BED 3	SUSP CONC 100; Suspended Concrete Slab Floor (100mm)	17.2	N/A	1.00	Timber (12mm)
Bath	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	5.5	N/A	1.00	Tile (8mm)
ES	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	11.5	N/A	1.00	Tile (8mm)
ES	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	0.1	N/A	1.00	Timber (12mm)
FAMILY	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	20.8	N/A	1.00	Timber (12mm)
KITCHEN	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	98.8	N/A	1.00	Timber (12mm)
LDY	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	4.6	N/A	1.00	Tile (8mm)
ROBE	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	7.5	N/A	1.00	Timber (12mm)
WC	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	2.7	N/A	1.00	Tile (8mm)

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
BED 1	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No
BED 2	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No
BED 3	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No
Bath	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No
ES	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No
FAMILY	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No
KITCHEN	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No
LDY	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No
ROBE	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No
WC	FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	2.50	No

Ceiling	penetrations*
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Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
BED 1	3	Downlight	200	Sealed
BED 2	2	Downlight	200	Sealed
BED 3	2	Downlight	200	Sealed
Bath	1	Downlight	200	Sealed
Bath	1	Exhaust Fan	350	Sealed
ES	2	Downlight	200	Sealed
ES	1	Exhaust Fan	350	Sealed
FAMILY	3	Downlight	200	Sealed
KITCHEN	14	Downlight	200	Sealed
KITCHEN	1	Exhaust Fan	350	Sealed
LDY	1	Downlight	200	Sealed
ROBE	1	Downlight	200	Sealed
WC	1	Downlight	200	Sealed

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
WC	1	Exhaust Fan	350	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
None		

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
FLAT-02: Flat Framed / Skillion Metal Roof & Cathedral PB Ceiling (11°-33°)	0.00	0.50	Medium

Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions (height x width, mm)	Frame spacing (mm)	Steel thickness (BMT mm)	Thermal Break (R-value)	
None					

Appliance schedule

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

Cooling system

Туре	Location		Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Home Data					
Heating system					

Туре	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
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No Whole of Home Data

Hot water system

		Hot	Minimum	Assessed
Туре	Fuel type	Water	efficiency /	daily load
		CER Zone	STC	[litres]

No Whole of Home Data

Pool / spa equipment

Туре	Fuel type	efficiency / performance	Recommended capacity
		•	

No Whole of Home Data

NatHERS Certificate 7.3 Star Rating as of 31 Mar 2025

Onsite Renewable Energy schedule

Type Orientatation Generation Capacity [kW]

No Whole of Home Data

Battery schedule

Type Storage Capacity [kWh]

No Whole of Home Data



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

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 projecties 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 abstructions 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, elosely 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.
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
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)