Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011840535

Generated on 04 Apr 2025 using BERS Pro v5.2.4 (3.23)

Property

Address 23 Auvergne Way,

OLD BAR, NSW, 2430

Lot 169 DP 127023

NCC class*

Floor/all Floors G of 2 floors

Type New Home

Plans

Garage

Main plan

Prepared by Tim Cross Building Design and Drafting

Construction and environment

Assessed floor area [m2]* Exposure type
Conditioned* 206.4 Suburban

Unconditioned* 19.7
Total 261.4

NatHERS climate zone
15 Williamtown



35.4

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Business name Concept Designs Australia
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Phone 0408864184

Accreditation No. 10137

Assessor Accrediting Organisation

HERA

Declaration of interest Declaration completed: no conflicts

NCC Requirements

NCC provisions Volume Two

Strate/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 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

50.4 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	25.5	24.9
Load limits	N/A	N/A

Features determining load limits

Floor Type	CSOG
(lowest conditioned area)	0300
NCC climate zone 1 or 2	No
Outdoor living area	No
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=hZxnfpkfJ.

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

No

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.

7 Star Rating as of 04 Apr 2025

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Certificate check	Approva	I Stage	Construction Stage	ction	
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	Conser	Builder	Conser Survey	Occups
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 highrise 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 Star Rating as of 04 Apr 2025

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	Approva	I Stage	Construe Stage	ction	
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not inclu			RS asse		
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 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	assessr	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. Addit but are not limited to: condensation, structural and fire safety requirements and any star requirements.					
Additional notes					
Vapour barrier to be added to external wall insulation.					



Room schedule

Room Zone Type		Area [m²]
Garage	Garage	35.37
Entry	Daytime	16.28
Bedroom 5	Bedroom	12.27
Bed 5 Ensuite	Unconditioned	4.76
Laundry	Unconditioned	6.07
Kitchen/Living	Kitchen/Living	53.23
Mud	Daytime	3.14
WIP	Daytime	4.81
Media	Living	21.17
Hall	Daytime	19.61
Ensuite	Nighttime	7.12
WIR	Nighttime	7.89
Bedroom 1	Bedroom	24.1
Bedroom 2	Bedroom	15.06
Bedroom 3	Bedroom	11.17
Bath	Unconditioned	8.84
Bedroom 4	Bedroom	10.58
Bed 4 Robe	Nighttime	4.14

Window and glazed door type and performance

Default windows*

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

Custom windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
willdow ib	Description	U-value*	31100	SHGC lower limit	SHGC upper limit	
AWS-001-022	Aluminium Sliding Window SG AGG 6EA	4.6	0.61	0.58	0.64	
AWS-018-021	Aluminium Hinged Door SG AGG 6EA	4.4	0.47	0.45	0.50	
AWS-007-028	Aluminium Awning Window SG 6ET	4.9	0.54	0.51	0.57	



Custom windows*

Window ID	Window	Maximum U-value*		Substitution to	olerance ranges	
window iD	Description			SHGC lower limit	SHGC upper limit	
AWS-001-002	Aluminium Sliding Window SG 5Clr	6.4	0.72	0.68	0.75	
AWS-068-008	Aluminium Fixed Window SG 5ET	4.5	0.64	0.61	0.68	
AWS-013-013	Aluminium Sliding Door DG LB Clr 4/12/4	3.0	0.49	0.46	0.51	

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Garage	AWS-001-022-001	n/a	1000	1800	Sliding	45	W	No
Entry	AWS-018-021-001	W5	2100	1200	Casement	90	S	No
Bedroom 5	AWS-001-022-001	n/a	600	1800	Sliding	45	E	No
Bedroom 5	AWS-007-028-001	W6	2000	600	Awning	60	S	No
Bedroom 5	AWS-007-028-001	W7	2000	600	Awning	60	S	No
Bed 5 Ensuite	AWS-001-002-001	W11	400	1000	Sliding	45	Е	No
Kitchen/Living	AWS-068-008-001	W4	600	3000	Fixed	00	W	No
Kitchen/Living	AWS-013-013-001	W2	2100	3600	Sliding	66	N	No
Kitchen/Living	AWS-013-013-001	W3	2100	3600	Sliding	66	N	No
Kitchen/Living	AWS-001-022-001	n/a	1800	900	Sliding	30	E	No
Kitchen/Living	AWS-001-022-001	n/a	1800	900	Sliding	30	Е	No
Media	AWS-001-022-001	n/a	600	2100	Sliding	10	E	No
Ensuite	AWS-001-002-001	W9	600	1500	Sliding	10	E	No
Bedroom 1	AWS-001-022-001	n/a	600	1800	Sliding	10	Е	No
Bedroom 1	AWS-013-013-001	W1	2100	3600	Sliding	66	S	No
Bedroom 2	AWS-007-028-001	W8	1200	2100	Awning	10	S	No
Bedroom 2	AWS-001-022-001	W13	1200	1800	Sliding	10	W	No
Bedroom 3	AWS-001-022-001	W12	1200	1800	Sliding	10	W	No
Bath	AWS-001-002-001	W10	600	1500	Sliding	10	W	No
Bedroom 4	AWS-001-022-001	n/a	1200	2100	Sliding	10	N	No



Roof window* type and performance value

Default roof windows*

Window ID Window Maximum SHGC* Substitution tolerance ranges SHGC SHGC lower limit SHGC upper limit

No Data Available

Custom roof windows*

Window ID Window Maximum SHGC* Substitution tolerance ranges SHGC SHGC lower limit SHGC upper limit

No Data Available

Roof window* schedule

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

No Data Available

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area Orientation [m ²]	Outdoor shade	Diffuser
No Data Ava	ilable					

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2100	5200	90	S	
Laundry	2040	820	90	Е	

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW-1	Single Skin Brick	0.85		No insulation	No
EW-2	Timber Stud Frame Brick Veneer	0.85		No insulation	No
EW-3	Timber Stud Frame Brick Veneer	0.85		Bulk Insulation R2.5	No



Wall ID	Wall type	Solar absorptance	 Bulk insulation [R-value]	Reflective wall wrap*
EW-4	Fibro Timber Stud Frame Panel Direct Fix	0.30	Bulk Insulation 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	EW-1	2740	6000	S	100	No
Garage	EW-2	2740	6000	W	100	No
Garage	EW-2	2740	1500	N	100	No
Garage	EW-2	2740	1100	Е	5400	No
Entry	EW-3	2570	1690	S	3300	No
Bedroom 5	EW-3	2570	3495	Е	0	No
Bedroom 5	EW-3	2570	3700	S	1500	No
Bedroom 5	EW-3	2570	1800	W	7800	No
Bed 5 Ensuite	EW-3	2570	1890	E	0	No
Laundry	EW-3	2570	2390	Е	0	No
Kitchen/Living	EW-3	2570	5195	W	0	No
Kitchen/Living	EW-3	2570	9900	N	4050	No
Kitchen/Living	EW-3	2570	5995	Е	0	No
WIP	EW-3	2570	1890	W	0	No
Media	EW-4	2720	5495	Е	550	No
Media	EW-4	2720	3895	N	550	No
Ensuite	EW-4	2720	1890	Е	550	No
WIR	EW-4	2720	2090	Е	550	No
Bedroom 1	EW-4	2720	4295	Е	550	No
Bedroom 1	EW-4	2720	5400	S	2050	No
Bedroom 1	EW-4	2720	700	W	5050	No
Bedroom 2	EW-4	2720	4495	S	550	No
Bedroom 2	EW-4	2720	3395	W	550	No
Bedroom 3	EW-4	2720	3690	W	550	No
Bath	EW-4	2720	2690	W	550	No
Bedroom 4	EW-4	2720	3295	N	550	No
Bedroom 4	EW-4	2720	3295	W	550	No

0011840535 NatHE	RS Certificate	7 S	tar Ratin	g as of 04 Apr 2025			HOUSE HOUSE
Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]	
Bed 4 Robe	EW-4	2720	2690	N	550	No	

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	17.22	Bulk Insulation, No Air Gap R2.6
IW-002	Timber Stud Frame, Direct Fix Plasterboard	146.54	No insulation
IW-003	Timber Stud Frame, Direct Fix Plasterboard	47.32	Bulk Insulation, No Air Gap R2.5

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage	Waffle pod slab 300 mm 100mm	35.32	None	No Insulation	Bare
Entry	Waffle pod slab 300 mm 100mm	16.28	None	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 5	Waffle pod slab 300 mm 100mm	12.27	None	No Insulation	Carpet+Rubber Underlay 18mm
Bed 5 Ensuite	Waffle pod slab 300 mm 100mm	4.76	None	No Insulation	Ceramic Tiles 8mm
Laundry	Waffle pod slab 300 mm 100mm	6.07	None	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Waffle pod slab 300 mm 100mm	53.23	None	No Insulation	Cork Tiles or Parquetry 8mm
Mud	Waffle pod slab 300 mm 100mm	3.14	None	No Insulation	Cork Tiles or Parquetry 8mm
WIP	Waffle pod slab 300 mm 100mm	4.81	None	No Insulation	Cork Tiles or Parquetry 8mm
Media / Kitchen/Living	Timber Framed Timber Above Plasterboard 19mm	20.81		No Insulation	Carpet+Rubber Underlay 18mm
Hall / Garage	Timber Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Hall / Entry	Timber Framed Timber Above Plasterboard 19mm	0.29		No Insulation	Cork Tiles or Parquetry 8mm
Hall / Kitchen/Living	Timber Framed Timber Above Plasterboard 19mm	4.76		No Insulation	Cork Tiles or Parquetry 8mm
Hall / Mud	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Ensuite / Entry	Timber Framed Timber Above Plasterboard 19mm	1.99		No Insulation	Ceramic Tiles 8mm
Ensuite / Laundry	Timber Framed Timber Above Plasterboard 19mm	3.49		No Insulation	Ceramic Tiles 8mm



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Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Ensuite / Kitchen/Living	Timber Framed Timber Above Plasterboard 19mm	1.06		No Insulation	Ceramic Tiles 8mm
WIR / Entry	Timber Framed Timber Above Plasterboard 19mm	2.23		No Insulation	Carpet+Rubber Underlay 18mm
WIR / Bed 5 Ensuite	Timber Framed Timber Above Plasterboard 19mm	2.67		No Insulation	Carpet+Rubber Underlay 18mm
WIR / Laundry	Timber Framed Timber Above Plasterboard 19mm	2.40		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1 / Entry	Timber Framed Timber Above Plasterboard 19mm	6.38		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1 / Bedroom 5	Timber Framed Timber Above Plasterboard 19mm	12.18		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1 / Bed 5 Ensuite	Timber Framed Timber Above Plasterboard 19mm	1.84		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1	Suspended Floor Timber Frame 19mm	2.75	Totally Open	Bulk Insulation in Contact with Floor R2.5	Carpet+Rubber Underlay 18mm
Bedroom 2 / Garage	Timber Framed Timber Above Plasterboard 19mm	15.06		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Bedroom 3 / Garage	Timber Framed Timber Above Plasterboard 19mm	8.14		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Bedroom 3 / WIP	Timber Framed Timber Above Plasterboard 19mm	2.28		No Insulation	Carpet+Rubber Underlay 18mm
Bath / Kitchen/Living	Timber Framed Timber Above Plasterboard 19mm	5.60		No Insulation	Ceramic Tiles 8mm
Bath / Mud	Timber Framed Timber Above Plasterboard 19mm	0.17		No Insulation	Ceramic Tiles 8mm
Bath / WIP	Timber Framed Timber Above Plasterboard 19mm	1.73		No Insulation	Ceramic Tiles 8mm
Bedroom 4 / Kitchen/Living	Timber Framed Timber Above Plasterboard 19mm	10.57		No Insulation	Carpet+Rubber Underlay 18mm
Bed 4 Robe / Kitchen/Living	Timber Framed Timber Above Plasterboard 19mm	4.14		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	Plasterboard on Timber	No insulation	
Garage	Timber Framed Timber Above Plasterboard	Bulk Insulation R2.5	
Entry	Timber Framed Timber Above Plasterboard	No Insulation	

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7	Star	Rating	as	of	04 Apr	2025

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Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]		
Bedroom 5	Timber Framed Timber Above Plasterboard	No Insulation			
Bed 5 Ensuite	Timber Framed Timber Above Plasterboard	No Insulation			
Laundry	Timber Framed Timber Above Plasterboard	No Insulation			
Kitchen/Living	Timber Framed Timber Above Plasterboard	No Insulation			
Mud	Timber Framed Timber Above Plasterboard	No Insulation			
WIP	Timber Framed Timber Above Plasterboard	No Insulation			
Media	Plasterboard on Timber	Bulk Insulation R5			
Media	Plasterboard on Timber	Bulk Insulation R3			
Hall	Plasterboard on Timber	Bulk Insulation R5			
Ensuite	Plasterboard on Timber	Bulk Insulation R5			
Ensuite	Plasterboard on Timber	Bulk Insulation R3			
WIR	Plasterboard on Timber	Bulk Insulation R5			
WIR	Plasterboard on Timber	Bulk Insulation R3			
Bedroom 1	Plasterboard on Timber	Bulk Insulation R5			
Bedroom 1	Plasterboard on Timber	Bulk Insulation R3			
Bedroom 1	Plasterboard on Timber	Bulk Insulation R3			
Bedroom 2	Plasterboard on Timber	Bulk Insulation R5			
Bedroom 2	Plasterboard on Timber	Bulk Insulation R3			
Bedroom 3	Plasterboard on Timber	Bulk Insulation R5			
Bedroom 3	Plasterboard on Timber	Bulk Insulation R3			
Bath	Plasterboard on Timber	Bulk Insulation R5			
Bath	Plasterboard on Timber	Bulk Insulation R3			
Bedroom 4	Plasterboard on Timber	Bulk Insulation R5			
Bedroom 4	Plasterboard on Timber	Bulk Insulation R3			
Bed 4 Robe	Plasterboard on Timber	Bulk Insulation R5			
Bed 4 Robe	Plasterboard on Timber	Bulk Insulation R3			

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Garage	4	Downlights - LED	100	Sealed
Entry	4	Downlights - LED	100	Sealed
Bed 5 Ensuite	1	Exhaust Fans	300	Sealed

0011840535 NatHERS Certificate		7 Star Rating as of 04 Apr 2025		HOUSE
Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Laundry	2	Downlights - LED	100	Sealed
Kitchen/Living	8	Downlights - LED	100	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Mud	1	Downlights - LED	100	Sealed
WIP	1	Downlights - LED	100	Sealed
Media	2	Downlights - LED	100	Sealed
Hall	3	Downlights - LED	100	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
WIR	2	Downlights - LED	100	Sealed
Bath	1	Exhaust Fans	300	Sealed
Bed 4 Robe	1	Downlights - LED	100	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Bedroom 5	1	1200
Bedroom 1	1	1200
Bedroom 2	1	1200
Bedroom 3	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	0.85	Dark

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/m^2 is used for lighting, therefore lighting is not included in the appliance schedule.



Cooling system

Appliance/ system type	opliance/ system type Location Fuel type		effi	nimum iciency/ ormance	Recommended capacity		
No Data Available							
Heating system							
Appliance/ system type	Loc	cation	Fuel type	effi	nimum iciency/ ormance		mended acity
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		Minimur efficiend performa	:y/	Recomm capac	
No Data Available				•			
Onsite Renewable		edule					
System Type	Orientation		Syst	em Size Oı	r Generation	Capacity	
No Data Available							
Battery Schedule							
System Type	Size [Ba	ttery Storage	e Capacity]				



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 Fanastration Pating Council			
Appual apargu load	Australian Fenestration Rating Council			
Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions. the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the			
Assessed floor area	floor area in the design documents.			
features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimned Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant 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				
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			