Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011622511-01

Generated on 09 Feb 2025 using BERS Pro v5.2.4 (3.23)

Property

Address

Lot/DP NCC class* Floor/all Floors Type 9 Golden Wattle Way, TALLWOODS VILLAGE , NSW , 2430 Lot 25 DP 1065504 1a G of 2 floors New Home

Plans

Main plan Prepared by O'Brien & Billet SN

Construction and environment

Assessed floor area [m2]*

Conditioned* 259.9 Unconditioned* 18.8 Total 324.4 Garage 45.7

Exposure type Suburban NatHERS climate zone 15 Williamtown



Accredited assessor

 Name
 Brad Hoad

 Business name
 Thermal Performance

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 Accreditation No.
 20731

 Assessor Accrediting Organisation

 ABSA

 Declaration of interest
 Declaration completed: no conflicts

NCC Requirements

NCC provisions Strate/Territory variation Volume Two

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 <u>www.abcb.gov.au.</u>

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

Thermal performance Star rating

The more stars the more energy efficient

NATIONWIDE HOUSE ENERGY RATING SCHEME

42.9 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	22.4	20.5
Load limits	N/A	N/A

Features determining load limits

Floor Type (lowest conditioned area)	csog
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 www.hstar.com.au/QR/Genera p=WeliGwKxu . When using either link, ensure you are visiting www.hstar.com.au



* Refer to glossary Generated on 09 Feb 2025 using BERS Pro v5.2.4 (3.23) for 9 Golden Wattle Way, TALLWOODS VILLAGE, NSW, 2430

About the ratings

Thermal performance rating

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

Whole of Home performance rating

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

Heating & Cooling Load Limits

Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the *ABCB 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

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for 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

Cost



7.6 Star Rating as of 09 Feb 2025

Certificate check	Approva	I Stage	Constru Stage	ction	HOUSE
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 Survey	Builder	Conser Survey	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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-					HOUSE	
	Approva	al Stage	Construction Stage			
Certificate check	cked	ority/ cked	eq	ority cked	ther	
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	ERS asse	essment)		
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 perform	ance asse	ssment is	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	S assessi	ment)			
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. Additional requirements that must also be satisfied include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.

Additional notes



Room schedule

Room	Zone Type	Area [m²]	
Bedroom 3	Bedroom	14.98	
Bedroom 4	Bedroom	14.91	
Bath	Unconditioned	8.52	
WC	Daytime	2.76	
Study	Daytime	6.28	
Family	Living	63.53	
Garage	Garage	45.7	
Media	Living	15.94	
Bedroom 2	Bedroom	13.56	
Powder	Unconditioned	4.44	
Bedroom 1	Bedroom	26.87	
Ensuite	Nighttime	9.42	
Entry	Daytime	14.73	
Laundry	Unconditioned	5.84	
Kit/Liv/Din	Kitchen/Living	81.28	

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	ximum SHGC*	Substitution tolerance ranges		
	Description	U-value*	31100	SHGC lower limit	SHGC upper limit	
No Data Availa	able					

Custom windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
WINdow ID	Description	U-value*	3660	SHGC lower limit	SHGC upper limit	
AWS-008-008	Aluminium Awning Window DG 3Clr/12Ar/3ET	3.6	0.53	0.50	0.56	
AWS-037-025	Thermally Broken Aluminium Sliding Door DG 4Clr/10Ar/4ET	2.5	0.52	0.49	0.54	
AWS-013-003	Aluminium Sliding Door DG 4Clr/10Ar/4ET	3.2	0.57	0.54	0.60	
AWS-017-003	Aluminium Bifold Door DG 4Clr/10Ar/4ET	3.7	0.48	0.46	0.51	

HOUSE

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Bedroom 3	AWS-008-008-001	W15	1500	2100	Awning	30	Ν	No
Bedroom 4	AWS-008-008-001	W16	1500	2100	Awning	30	Ν	No
Bath	AWS-008-008-001	W14	1200	1500	Awning	30	W	No
Study	AWS-008-008-001	W17	1200	600	Awning	30	Ν	No
Study	AWS-008-008-001	W18	1200	1800	Awning	30	E	No
Family	AWS-037-025-001	SD5	2400	2400	Sliding	60	Ν	No
Family	AWS-008-008-001	W19	2100	600	Awning	30	E	No
Family	AWS-008-008-001	W20	2100	600	Awning	30	E	No
Media	AWS-008-008-001	W3	2100	600	Awning	30	S	No
Media	AWS-008-008-001	W4	2100	600	Awning	30	S	No
Media	AWS-008-008-001	W5	2100	600	Awning	30	S	No
Bedroom 2	AWS-008-008-001	W6	1200	600	Awning	10	W	No
Bedroom 2	AWS-008-008-001	W7	1200	600	Awning	10	W	No
Powder	AWS-008-008-001	W2	1600	600	Awning	30	S	No
Bedroom 1	AWS-013-003-001	SD1	2400	2100	Sliding	60	Ν	No
Bedroom 1	AWS-008-008-001	W9	1200	600	Awning	10	W	No
Bedroom 1	AWS-008-008-001	W10	1200	600	Awning	10	W	No
Ensuite	AWS-008-008-001	W8	1200	1500	Awning	30	W	No
Entry	AWS-008-008-001	ED1	600	1500	Casement	90	S	No
Laundry	AWS-008-008-001	W1	600	1500	Awning	30	E	No
Kit/Liv/Din	AWS-013-003-001	SD2	2400	2100	Sliding	60	Ν	No
Kit/Liv/Din	AWS-008-008-001	W11	2100	1800	Awning	30	Ν	No
Kit/Liv/Din	AWS-008-008-001	W12	2100	1800	Awning	30	Ν	No
Kit/Liv/Din	AWS-013-003-001	SD3	2400	2100	Sliding	60	E	No
Kit/Liv/Din	AWS-013-003-001	SD4	2400	1600	Sliding	60	Ν	No
Kit/Liv/Din	AWS-017-003-001	W13	1200	1500	Bifold	90	N	No

Roof window* type and performance value

Default roof windows*

Window ID	Window	Window Maximum	SHCC*	Substitution tolerance ranges		
window ID	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
No Data Avail	able					
Custom roof v	vindows*					
Window ID	Window	Maximum	SUCC*	Substitution to	lerance ranges	
Window ID	Window Description	Maximum U-value*	SHGC*	Substitution to SHGC lower limit	lerance ranges SHGC upper limit	

Roof window* schedule

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

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 [m²]	Orientation	Outdoor shade	Diffuser
No Data Available							

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2400	1800	90	S	
Garage	2400	5400	90	S	
Laundry	2100	900	90	S	

External wall type

Wall ID	Wall type	Wall Solar shade absorptance [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW- 1	Timber Stud Frame Brick Veneer	0.30	Bulk Insulation, Air Gap R2.5	No

7.6 Star Rating as of 09 Feb 2025

	Wall	Solar Wall Solar shade absorptance [colour]	Bulk insulation	Reflective wall wrap*
EW- 2	Weatherboard Timber Stud Frame Panel Direct Fix	0.30	Foil, Anti-glare one side, Reflective other	Yes
EW- 3	Weatherboard Timber Stud Frame Panel Direct Fix	0.30	Foil Anti-glare one side and Reflective other of the Bulk Insulation R2.5	Yes

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Bedroom 3	EW-1	2450	5100	Ν	2100	No
Bedroom 3	EW-1	2450	3500	W	0	No
Bedroom 4	EW-1	2450	5100	Ν	2100	No
Bath	EW-1	2450	3600	S	0	No
Bath	EW-1	2450	2400	W	0	No
WC	EW-1	2450	2600	S	0	No
Study	EW-1	2450	2200	Ν	2100	No
Study	EW-1	2450	2900	E	4000	No
Family	EW-1	2450	4000	Ν	5000	No
Family	EW-1	2450	5000	E	0	No
Family	EW-1	2450	8100	S	0	No
Family	EW-1	2450	3100	E	0	No
Family	EW-1	2450	2100	S	0	No
Family	EW-1	2450	5100	W	0	No
Garage	EW-2	2450	3000	E	2800	No
Garage	EW-2	2450	2200	Ν	13500	No
Garage	EW-2	2450	2700	E	600	No
Garage	EW-2	2450	2200	S	600	No
Garage	EW-2	2450	1200	E	2800	No
Garage	EW-2	2450	5900	S	600	No
Media	EW-3	2450	3500	W	600	No
Media	EW-3	2450	4600	S	1700	No
Bedroom 2	EW-3	2450	3000	W	600	No
Powder	EW-3	2450	2100	S	700	No
Powder	EW-3	2450	1000	W	6800	No

* Refer to glossary. Generated on 09 Feb 2025 using BERS Pro v5.2.4 (3.23) for 9 Golden Wattle Way , TALLWOODS VILLAGE , NSW , 2430 7.6 Star Rating as of 09 Feb 2025



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Powder	EW-3	2450	700	E	6500	No
Bedroom 1	EW-3	2450	4600	Ν	2600	No
Bedroom 1	EW-3	2450	4000	W	600	No
Ensuite	EW-3	2450	4000	W	600	No
Entry	EW-3	2450	1600	S	1700	No
Laundry	EW-3	2450	2200	S	6300	No
Laundry	EW-3	2450	2700	E	600	No
Kit/Liv/Din	EW-3	2450	7800	Ν	2600	No
Kit/Liv/Din	EW-3	2450	2900	E	4600	No
Kit/Liv/Din	EW-3	2450	4000	Ν	5500	No
Kit/Liv/Din	EW-3	2450	2300	Е	600	No

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	172.97	No insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	27.69	Bulk Insulation, Air Gap R2.5

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bedroom 3	Waffle pod slab 225 mm 100mm	14.98	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bedroom 4	Waffle pod slab 225 mm 100mm	14.91	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bath	Waffle pod slab 225 mm 100mm	8.52	None	Waffle Pod 225mm	Ceramic Tiles 8mm
WC	Waffle pod slab 225 mm 100mm	2.76	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Study	Waffle pod slab 225 mm 100mm	6.28	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Family	Waffle pod slab 225 mm 100mm	63.53	None	Waffle Pod 225mm	Bare
Garage	Concrete Slab on Ground 100mm	45.70	None	No Insulation	Bare
Media	Suspended Floor Timber Frame 19mm	15.94	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm

7.6 Star Rating as of 09 Feb 2025



				Added	HOUSE
Location	Construction	Area [m²]	Sub-floor ventilation	insulation [R-value]	Covering
Bedroom 2	Suspended Floor Timber Frame 19mm	13.56	Enclosed	Bulk Insulation, Gap to Floor R2.5	Carpet+Rubber Underlay 18mm
Powder	Suspended Floor Timber Frame 19mm	4.44	Enclosed	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
Bedroom 1 / Bedroom 3	Timber Framed Timber Above Plasterboard 19mm	13.97		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1 / Bath	Timber Framed Timber Above Plasterboard 19mm	3.75		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1 / WC	Timber Framed Timber Above Plasterboard 19mm	0.77		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1 / Family	Timber Framed Timber Above Plasterboard 19mm	2.76		No Insulation	Carpet+Rubber Underlay 18mm
Bedroom 1	Suspended Floor Timber Frame 19mm	4.29	Enclosed	Bulk Insulation, Gap to Floor R2.5	Carpet+Rubber Underlay 18mm
Ensuite / Bath	Timber Framed Timber Above Plasterboard 19mm	4.38		No Insulation	Ceramic Tiles 8mm
Ensuite	Suspended Floor Timber Frame 19mm	4.87	Enclosed	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
Entry	Suspended Floor Timber Frame 19mm	14.73	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
Laundry / Family	Timber Framed Timber Above Plasterboard 100mm	5.84		No Insulation	Ceramic Tiles 8mm
Kit/Liv/Din / Bedroom 3	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Kit/Liv/Din / Bedroom 4	Timber Framed Timber Above Plasterboard 19mm	9.67		No Insulation	Cork Tiles or Parquetry 8mm
Kit/Liv/Din / WC	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Kit/Liv/Din / Study	Timber Framed Timber Above Plasterboard 19mm	0.90		No Insulation	Cork Tiles or Parquetry 8mm
Kit/Liv/Din / Family	Timber Framed Timber Above Plasterboard 19mm	49.37		No Insulation	Cork Tiles or Parquetry 8mm
Kit/Liv/Din	Suspended Floor Timber Frame 19mm	2.29	Enclosed	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Bedroom 3	Timber Framed Timber Above Plasterboard	No Insulation	
Bedroom 4	Timber Framed Timber Above Plasterboard	No Insulation	
Bath	Timber Framed Timber Above Plasterboard	No Insulation	
WC	Timber Framed Timber Above Plasterboard	No Insulation	
Study	Timber Framed Timber Above Plasterboard	No Insulation	
Family	Timber Framed Timber Above Plasterboard	No Insulation	
Garage	Plasterboard on Timber	No insulation	
Media	Plasterboard on Timber	Bulk insulation with airgap R6	
Bedroom 2	Plasterboard on Timber	Bulk insulation with airgap R6	
Powder	Plasterboard on Timber	Bulk insulation with airgap R6	
Bedroom 1	Plasterboard on Timber	Bulk insulation with airgap R6	
Ensuite	Plasterboard on Timber	Bulk insulation with airgap R6	
Entry	Plasterboard on Timber	Bulk insulation with airgap R6	
Laundry	Plasterboard on Timber	Bulk insulation with airgap R6	
Kit/Liv/Din	Plasterboard on Timber	Bulk insulation with airgap R6	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Bedroom 3	5	Downlights - LED	150	Sealed
Bedroom 4	5	Downlights - LED	150	Sealed
Bath	2	Downlights - LED	150	Sealed
Bath	1	Exhaust Fans	300	Sealed
WC	1	Downlights - LED	150	Sealed
WC	1	Exhaust Fans	300	Sealed
Study	2	Downlights - LED	150	Sealed
Family	8	Downlights - LED	150	Sealed
Media	4	Downlights - LED	150	Sealed
Bedroom 2	4	Downlights - LED	150	Sealed
Powder	1	Downlights - LED	150	Sealed
Bedroom 1	6	Downlights - LED	150	Sealed



7.6 Star Rating as of 09 Feb 2025



Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Ensuite	2	Downlights - LED	150	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
Entry	3	Downlights - LED	150	Sealed
Laundry	2	Downlights - LED	150	Sealed
Kit/Liv/Din	16	Downlights - LED	150	Sealed
Kit/Liv/Din	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Family	3	1200
Media	1	1200
Bedroom 1	1	1200
Kit/Liv/Din	4	1400

Roof type

Construction	Added insulation	Solar	Roof shade
	[R-value]	absorptance	[colour]
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, Anti-glare Up 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/m² is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system

Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available				

Appliance/ system type	Lo	cation Fi	uel type	eff	inimum iciency/ formance		mended acity
No Data Available							
Hot water system							
Appliance/ system type	Fuel type	Hot Water CER Zone	Minimum efficiency /STC	Zone 3 STC		ibstitution 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							

System Type	Orientation	System Size Or Generation Capacity
No Data Available		

Battery Schedule

System Type	Size [Battery Storage Capacity]
No Data Available	

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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. Assessed floor area the floor area in the design documents. Expension and the design documents. Celling penetrations Equirus that require a penetration to the celling with shall holes through the celling view in the celling with shall holes through the celling documents. Expension and the celling with shall holes through the celling of wiring, e.g. celling lans, pendant lights, and the celling with shall holes through the celling with shall holes through the celling of wiring, e.g. celling lans, pendant lights, and celling with documents in the celling with shall holes through the celling with a document area wells and the celling with shall holes through the celling with the celling with shall holes through the celling with shall holes through the celling with	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. Gelling penetrations Eastures that require a penetration to the colling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Conditioned Coefficient of performance Coefficient of performance Constance a cone within a welling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages. Custom windows Windows field in NatHERS Statware that are available on the market in Australia and have a WERS (Window Energy Rating Schemen Tating, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input. Energy value This is your homes rating without solar or batteries. Energy value The exposure to acoptery including. Used Infinite Goods to the building user, the environment and energy networks (as defined on the Assisting without solar or batteries. Exposure category - popen see exposure categories below. exposure fail grazing without solar or batteries. Exposure category - popen terrai with numerous, closely spaced obstructions over 10 meo, a cub marking, desert, exposed high-rise unit (usually above 10 floors). Exposure category - popen terrai with numerous, closely paced obstructions over 10 meo, a cub ratindustin aces. Exposur		
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Provisional value 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. Stocs 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 a 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 polystyreme insulation sheeting or plastic strips	Opening percentage	
Recommended capacity zone or zone's 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 Regulator (CER) 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 U-value the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. U-value the rate of heat transfer thro	Provisional value	a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note
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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)	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)