Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011667961

Generated on 20 Jan 2025 using BERS Pro v5.2.4 (3.23)

Property

Address Unit 2, 29 Gregory Street, YAGOONA , NSW , 2199

Lot 258 DP 35667

NCC class* 1a

Floor/all Floors G of 2 floors

Type New Home

Plans

Main plan Taouk
Prepared by Platform 5

Construction and environment

Assessed floor area [m2]* Exposure type
Conditioned* 165.9 Suburban
Unconditioned* 10.6
Total 192.8
Garage 16.3

Exposure type
Suburban

NatHERS climate zone
56 Mascot (Sydney Airport)



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 Volume Two

Strate/Territory variation Y

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

29.7 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
 22.0
 7.7

 Load limits
 N/A
 N/A

Features determining load limits

Floor Type
(lowest conditioned area)

NCC climate zone 1 or 2

Outdoor living area

Outdoor living area ceiling fan

No

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

To verify this certificate, scan the QR code or visit www.hstar.com.au/QR/General p=TMriHlhpJ . When using either link,

When using either link, ensure you are visiting www.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

Νo

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 20 Jan 2025

HÖÜSI

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	Consei	Builder	Conse	Occup
Genuine certificate check	1	1	1	·	
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					

7 St	ar Ra	ting a	as of	20	Jan	2025
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H	o	U:	SE

0011667961 NatHERS Certificate 7 Star Rating as of 20 Jan 2025					HOUSE
	Approva	I Stage	Construction Stage		
Certificate check	ecked	thority/ ecked	ked	thority	Other
Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not inclu	ıded in t	he NatHE	RS asse	ssment)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
nsulation 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 l	NatHERS	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 but are not limited to: condensation, structural and fire safety requirements and any starequirements.					
Additional notes					



Room schedule

Room	Zone Type	Area [m²]
Garage	Garage	16.3
Pantry	Daytime	4.58
Bath	Unconditioned	4.42
Laundry	Unconditioned	6.14
Kit/Liv/Din	Kitchen/Living	60.08
Entry	Daytime	17.27
Bedroom 1	Bedroom	14.99
Ensuite	Nighttime	5.48
WIR	Nighttime	6.51
Bedroom 2	Bedroom	11.63
Bedroom 3	Bedroom	11.29
Bedroom 4	Bedroom	10.47
Bath	Unconditioned	5.48
Stairs/landing	Daytime	32
Void	Unconditioned	10.44
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Window and glazed door type and performance

Default windows*

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

Custom windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges			
	Description	U-value*	знас	SHGC lower limit	SHGC upper limit		
DEC-001-003	uPVC Awning Window DG 4Clr/14Ar/4EA	1.8	0.41	0.39	0.43		

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Pantry	DEC-001-003-001	W6	1000	1326	Sliding	45	S	No
Bath	DEC-001-003-001	W29	1000	1326	Sliding	45	S	No

0011667961 NatHERS Certificate		7 Star Rating as of 20 Jan 2025						HOUSE
Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Laundry	DEC-001-003-001	W30	1000	1326	Sliding	45	S	No
Kit/Liv/Din	DEC-001-003-001	W24	2700	3200	Sliding	60	E	No
Kit/Liv/Din	DEC-001-003-001	W27	2700	900	Casement	90	S	No
Kit/Liv/Din	DEC-001-003-001	W26	2700	800	Awning	30	S	No
Kit/Liv/Din	DEC-001-003-001	W25	2700	800	Awning	30	S	No
Kit/Liv/Din	DEC-001-003-001	W28	800	2200	Fixed	00	S	No
Entry	DEC-001-003-001	D9/W2	2980	1800	Casement	80	W	No
Bedroom 1	DEC-001-003-001	W37	2700	2868	Sliding	45	W	No
Ensuite	DEC-001-003-001	W10	1000	900	Sliding	45	S	No
WIR	DEC-001-003-001	W7	1000	900	Sliding	45	S	No
Bedroom 2	DEC-001-003-001	W33	1000	2000	Sliding	10	S	No
Bedroom 3	DEC-001-003-001	W32	1000	2000	Sliding	10	S	No
Bedroom 4	DEC-001-003-001	W31	1200	2000	Sliding	10	E	No
Bath	DEC-001-003-001	W34	1000	1307	Sliding	45	S	No
Stairs/landing	DEC-001-003-001	W35	1000	1000	Sliding	45	S	No
Void	DEC-001-003-001	W36	2700	1848	Fixed	00	W	No

Roof window* type and performance value

Default roof windows*

Window ID	Window	Maximum	SHCC*	Substitution to	lerance ranges
	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Avail	ahle				

Custom roof windows*

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit
No Data Avai	lable				

Roof window* schedule

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



Skylight* type and performance

Skylight ID **Skylight description** Skylight shaft reflectance

No Data Available

Skylight* schedule

Skylight Skylight Skylight Outdoor Area Location shaft length Orientation Diffuser No. [m²]shade [mm]

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2800	2860	90	W	
Laundry	2400	800	90	S	_

External wall type

Wall ID	Wall type	Solar Wall shade absorptance [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW- 1	Cavity Brick	0.50	Foil Anti-glare one side and Reflective other of the Bulk Insulation R1	Yes
EW-	Timber Stud Frame Brick Veneer	0.50	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	3000	3045	W	1850	No
Pantry	EW-1	2700	600	W	9800	No
Pantry	EW-1	2700	1545	S	0	No
Bath	EW-1	2700	1790	S	600	No
Laundry	EW-1	2700	3845	S	0	No
Laundry	EW-1	2700	600	E	7700	No
Kit/Liv/Din	EW-1	2700	4300	E	5500	Yes
Kit/Liv/Din	EW-1	2700	566	SE	1556	No
Kit/Liv/Din	EW-1	2700	3400	S	900	No
Kit/Liv/Din	EW-1	2700	500	SE	930	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Kit/Liv/Din	EW-1	2700	1300	E	0	No
Kit/Liv/Din	EW-1	2700	4145	S	0	No
Entry	EW-1	2700	3945	S	0	No
Entry	EW-1	3000	2900	W	1500	Yes
Entry	EW-1	2700	500	NW	1945	No
Entry	EW-1	2700	600	N	3100	No
Bedroom 1	EW-2	2700	3100	W	4200	Yes
Ensuite	EW-2	2700	3300	S	0	No
WIR	EW-2	2700	2300	S	0	No
Bedroom 2	EW-2	2700	3200	S	0	No
Bedroom 3	EW-2	2700	1300	E	0	No
Bedroom 3	EW-2	2700	3100	S	0	No
Bedroom 4	EW-2	2700	3400	E	0	No
Bedroom 4	EW-2	2700	3100	S	0	No
Bath	EW-2	2700	2000	S	0	No
Bath	EW-2	2700	1600	E	0	No
Stairs/landing	EW-2	2700	1800	S	0	No
Void	EW-2	2700	3300	S	0	No
Void	EW-2	2700	2900	W	1500	No
Void	EW-2	2700	500	NW	1980	No
Void	EW-2	2700	2900	N	3100	No

Internal wall type

Wall IDWall type		Area [m²]	Bulk insulation
IW- 001	Cavity brick, plasterboard	86.40	Bulk Insulation in the centre R1
IW- 002	Single Skin Brick	15.12	Foil Anti-glare one side and Reflective other of the Bulk Insulation R1.3
IW- 003	Single Skin Brick	43.74	No insulation
IW- 004	Timber Stud Frame, Direct Fix Plasterboard	98.55	No insulation



Floor type

Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Waffle pod slab 225 mm 100mm	16.36	None	Waffle Pod 225mm	Bare
Waffle pod slab 225 mm 100mm	4.58	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Waffle pod slab 225 mm 100mm	4.42	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Waffle pod slab 225 mm 100mm	6.14	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Waffle pod slab 225 mm 100mm	60.08	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Waffle pod slab 225 mm 100mm	17.27	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Timber Framed Timber Above Plasterboard 19mm	10.04		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Timber Framed Timber Above Plasterboard 19mm	4.76		No Insulation	Cork Tiles or Parquetry 8mm
Timber Framed Timber Above Plasterboard 19mm	4.28		No Insulation	Ceramic Tiles 8mm
Timber Framed Timber Above Plasterboard 19mm	1.06		No Insulation	Ceramic Tiles 8mm
Timber Framed Timber Above Plasterboard 19mm	2.14		No Insulation	Cork Tiles or Parquetry 8mm
Timber Framed Timber Above Plasterboard 19mm	2.05		No Insulation	Cork Tiles or Parquetry 8mm
Timber Framed Timber Above Plasterboard 19mm	1.40		No Insulation	Cork Tiles or Parquetry 8mm
Suspended Floor Timber Frame 19mm	0.44	Totally Open	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
Timber Framed Timber Above Plasterboard 19mm	11.63		No Insulation	Cork Tiles or Parquetry 8mm
Timber Framed Timber Above Plasterboard 19mm	11.29		No Insulation	Cork Tiles or Parquetry 8mm
Timber Framed Timber Above Plasterboard 19mm	2.65		No Insulation	Cork Tiles or Parquetry 8mm
Suspended Floor Timber Frame 19mm	7.76	Totally Open	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
Timber Framed Timber Above Plasterboard 19mm	1.84		No Insulation	Cork Tiles or Parquetry 8mm
Timber Framed Timber Above Plasterboard 19mm	3.52		No Insulation	Cork Tiles or Parquetry 8mm
	Waffle pod slab 225 mm 100mm Timber Framed Timber Above Plasterboard 19mm Timber Framed Timber Above	Waffle pod slab 225 mm 100mm 4.58 Waffle pod slab 225 mm 100mm 4.58 Waffle pod slab 225 mm 100mm 4.42 Waffle pod slab 225 mm 6.14 Waffle pod slab 225 mm 6.14 Waffle pod slab 225 mm 100mm 60.08 Waffle pod slab 225 mm 100mm 17.27 Timber Framed Timber Above Plasterboard 19mm 100mm 17.27 Timber Framed Timber Above Plasterboard 19mm 100mm 100mm 1004 Timber Framed Timber Above Plasterboard 19mm 100mm 1006 Timber Framed Timber Above Plasterboard 19mm 100mm 1006 Timber Framed Timber Above Plasterboard 19mm 100mm 1006 Timber Framed Timber Above Plasterboard 19mm 1006 Timber Framed Timber Above Plasterboard 19mm 100mm 1006 Timber Framed Timber Above Plasterboard 19mm 100mm 1000 1000 1000 1000 1000 100	Waffle pod slab 225 mm 100mm Timber Framed Timber Above Plasterboard 19mm Timber Framed Timber Above Pla	Construction Area [m²] (m²] Sub-floor [R-value] Insulation [R-value] Waffle pod slab 225 mm 100mm 16.36 None Waffle Pod 225mm 225mm Waffle pod slab 225 mm 100mm 4.58 None Waffle Pod 225mm 225mm Waffle pod slab 225 mm 100mm 6.14 None Waffle Pod 225mm 25mm Waffle pod slab 225 mm 100mm 60.08 None Waffle Pod 225mm Waffle pod slab 225 mm 100mm 17.27 None Waffle Pod 225mm Waffle pod slab 225 mm 100mm 17.27 None Waffle Pod 225mm Waffle pod slab 225 mm 100mm 17.27 None Waffle Pod 225mm Waffle pod slab 225 mm 100mm 17.27 None Waffle Pod 225mm Waffle pod slab 225 mm 100mm 17.27 None Waffle Pod 225mm Waffle pod slab 225 mm 100mm 17.27 None Waffle Pod 225mm Waffle pod slab 225 mm 100mm 17.27 None Waffle Pod 225mm Waffle pod slab 225 mm 100mm 17.27 None No 11.50 Plasterboard 19mm 1.04 No 11.50 No 11.50 Timb



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Stairs/landing / Pantry	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Stairs/landing / Bath	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Stairs/landing / Kit/Liv/Din	Timber Framed Timber Above Plasterboard 19mm	16.85		No Insulation	Cork Tiles or Parquetry 8mm
Stairs/landing	Suspended Floor Timber Frame 19mm	0.09	Totally Open	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
Void / Entry	Timber Framed Timber Above Plasterboard 19mm	7.56		No Insulation	Cork Tiles or Parquetry 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Garage	Plasterboard on Timber	Bulk insulation with airgap R6	
Garage	Timber Framed Timber Above Plasterboard	Bulk Insulation R2.5	
Pantry	Timber Framed Timber Above Plasterboard	No Insulation	
Bath	Timber Framed Timber Above Plasterboard	No Insulation	
Laundry	Timber Framed Timber Above Plasterboard	No Insulation	
Kit/Liv/Din	Plasterboard on Timber	Bulk insulation with airgap R6	
Kit/Liv/Din	Timber Framed Timber Above Plasterboard	No Insulation	
Entry	Timber Framed Timber Above Plasterboard	No Insulation	
Bedroom 1	Plasterboard on Timber	Bulk insulation with airgap R6	
Ensuite	Plasterboard on Timber	Bulk insulation with airgap R6	
WIR	Plasterboard on Timber	Bulk insulation with airgap R6	
Bedroom 2	Plasterboard on Timber	Bulk insulation with airgap R6	
Bedroom 3	Plasterboard on Timber	Bulk insulation with airgap R6	
Bedroom 4	Plasterboard on Timber	Bulk insulation with airgap R6	
Bath	Plasterboard on Timber	Bulk insulation with airgap R6	
Stairs/landing	Plasterboard on Timber	Bulk insulation with airgap R6	
Void	Plasterboard on Timber	Bulk insulation with airgap R6	



Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	
Pantry	1	Downlights - LED	150	Sealed	
Bath	1	Downlights - LED	150	Sealed	
Laundry	2	Downlights - LED	150	Sealed	
Kit/Liv/Din	14	Downlights - LED	150	Sealed	
Kit/Liv/Din	1	Exhaust Fans	300	Sealed	
Entry	1	Downlights - LED	150	Sealed	
Bedroom 1	4	Downlights - LED	150	Sealed	
Ensuite	2	Downlights - LED	150	Sealed	
Ensuite	1	Exhaust Fans	300	Sealed	
WIR	2	Downlights - LED	150	Sealed	
Bedroom 2	2	Downlights - LED	150	Sealed	
Bedroom 3	2	Downlights - LED	150	Sealed	
Bedroom 4	2	Downlights - LED	150	Sealed	
Stairs/landing	6	Downlights - LED	150	Sealed	
Void	2	Downlights - LED	150	Sealed	
				-	

Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, Anti-glare Up R1.3	0.30	Light

Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]
No Data Available				

Appliance schedule

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

0011667961 NatHERS Certificate

7 Star Rating as of 20 Jan 2025



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				

Heating system

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

Hot water system

Appliance/ system type	Fuel type	Hot Water	Minimum efficiency	Zone 3		ibstitution e ranges	Assessed daily load
		CER Zone	/STC	STC	lower limit	upper limit	[litres]

Pool/spa equipment

No Data Available

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

Onsite Renewable Energy Schedule

System Type	Orientation	System Size Or Generation Capacity
No Data Available		

Battery Schedule

System Type	Size [Battery Storage Capacity]
No Data Available	



Explanatory notes

About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary.

Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and

are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

Glossary

AFRC	Australian Fenestration Rating Council
Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
COP	Coefficient of performance
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure	see exposure categories below.
Exposure category – exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – protected	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – suburban	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate airgap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Skylight (also known as roof lights) for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
STCs	Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulator (CER)
Thermal breaks	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick or continuous thermal breaks such as polystyrene insulation sheeting or plastic strips
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions.
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).
Window shading device	device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)