Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011713682

Generated on 13 Feb 2025 using BERS Pro v5.2.4 (3.23)

Property

Address 22 Cicada Glen Road,

Ingleside, NSW, 2101

Lot/DP Lot 243 DP 752046

NCC class* 1a

Floor/all Floors G of 1 floors

Type New Home

Plans

Main plan n/a Prepared by n/a

Construction and environment

Assessed floor area [m2]* Exposure type
Conditioned* 182.3 Suburban

 Unconditioned*
 16.4
 NatHERS climate zone

 Total
 244.5
 56 Mascot (Sydney Airport)

 Garage
 45.7



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Accreditation No. DMN/13/1641

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration not completed

NCC Requirements

NCC provisions Volume Two

Strate/Territory variation Ye

National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au..

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

Thermal performance Star rating



NATIONWIDE HOUSE ENERGY RATING SCHEME

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	14.5	15.2
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 hstar.com.au/QR/Generate? p=JSqedzACE. 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.



0011713682 Nat	HERS	Certificate
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7 Star Rating as of 13 Feb 2025

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Certificate check	Approva	I Stage	Stage	ction	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked. Note: The boxes indicate when and by whom each item should be checked. It is not	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
mandatory to complete this checklist.	Asse	Cons	Build	Cons	Occu
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					

0011713682	NatHERS	Certificate
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7 S	tar I	Rating	as	of 1	13	Feb	2025
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	Approva	I Stage	Stage 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	ided in ti	he NatHE	RS asse	ssment)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
Has the insulation been installed according to the NCC requirements?					
Building sealing					
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of 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 I	VatHERS	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. Additute are not limited to: condensation, structural and fire safety requirements and any startequirements.	tional requir ate or territo	rements tha ory variation	t must also s to the NC	be satisfied C energy ef	include, ficiency
Additional notes					
Rated with provisional values for downlights.					
Rated with AWS windows.					
Rated with suburban exposure because of the heavily vegetated bushland a	reas.				



Rated with construction elements and colours as requested in a separate e-mail.

Rated with 300mm waffle pod slab. Rated with floor covering as requested.

Bushfire shutters are ignored from the calculation because they are functional only during the fire.

Rated with ceiling fans 1200mm/as shown on the plans.

Rated with reduced insulation of R2.5 near the eave in the distance of 580mm (as per the housing provision note 10.8).

All coffer ceiling verticals and walls against the roof-space, to be insulated, with the same insulation as the ceiling

insulation.

All downlights: IC-F /IC-4/ (insulation covered/ including the control gears/) rated as per AS/NZS standard 60598 and IP

(sealed) rated as per BS EN 60529:1992, European IEC 60509:1989.

Where the roof is extended over an open area such as a deck or carport: A barrier to be installed within the roof space

to separate the space above the zoned part of the house and the space above the open veranda.

The fence height is rated as 1.8m above the natural ground level.

The building fabric, including insulation and air cavity ventilation, must meet the requirements specified in Part H

Energy Efficiency (Volume 2) of the NCC and the ABCB Housing Provisions 10.8 and 13.2. These standards are essential to ensure proper energy efficiency and compliance in construction practices.

Room schedule

Room	Zone Type	Area [m²]
Garage	Garage	14.16
Laundry	Unconditioned	8.48
Butlers	Daytime	9.76
Ktch/Liv/Din	Kitchen/Living	49.84
Bed 2	Bedroom	10.82
Powder	Daytime	2.36
Linen	Daytime	1.21
Master	Bedroom	19.12
Wir/Master	Nighttime	3.67
Ens/Master	Nighttime	4.58
Bath	Unconditioned	7.95
Bed 4	Bedroom	12.03
Bed 3	Bedroom	10.93
Wir/Bed 3	Nighttime	2.47
Rumpus	Living	14.89

0011713682 NatHERS Certificate	7 Star Rating as of 13 Feb 2025		HOUSE
Room	Zone Type	Area [m²]	CHARLY REPORT SCHOOL (II)
Entry	Daytime	5.28	
Media	Daytime	14.76	
Hwy	Daytime	10.58	
Garage Part	Garage	31.56	
Ktch/Liv Part	Daytime	8.64	
Hwy Part	Daytime	1.41	

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum SHGC*		Substitution tolerance ranges		
Willdow ID	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	
	Aluminium A DG Argon					
ALM-005-03 A	Fill High Solar Gain low-E	4.1	0.47	0.45	0.49	
	IOW-L					
TIM-001-01 W	Timber A SG Clear	5.4	0.56	0.53	0.59	

Custom windows*

Window ID	Window Maximum		CHCC*	Substitution tolerance ranges		
window ib	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
AWS-001-019	Aluminium Sliding Window SG 6.38CPClr	4.5	0.59	0.56	0.62	
AWS-011-005	Aluminium Sliding Door SG 6.38Sct	4.4	0.59	0.56	0.62	
AWS-003-008	Aluminium Sliding Window DG 3Clr/12Ar/3ET	3.4	0.56	0.54	0.59	

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Laundry	AWS-001-019-001	W007	1030	1450	Sliding	10	S	No
Butlers	AWS-001-019-001	W008	1030	1810	Sliding	10	W	No
Ktch/Liv/Din	AWS-001-019-001	W009	1030	1810	Sliding	10	W	No
Ktch/Liv/Din	AWS-011-005-001	D001	2100	4450	Sliding	45	W	No
Bed 2	AWS-001-019-001	W010	1800	1810	Sliding	30	W	No
Master	AWS-001-019-001	W011	1800	2050	Sliding	10	W	No
Master	AWS-011-005-001	D02	2100	2170	Sliding	45	S	No
Ens/Master	AWS-001-019-001	W012	860	1570	Sliding	45	N	No

0011713682 NatHERS Certificate		7 Star Rating as of 13 Feb 2025						
Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Bath	AWS-001-019-001	W013	860	1570	Sliding	45	N	No
Bed 4	AWS-003-008-001	W001	2060	1810	Sliding	30	E	No
Bed 3	AWS-003-008-001	W002	2060	1810	Sliding	30	Е	No
Rumpus	ALM-005-03 A	W003	2060	850	Tilt 'n' Turn	60	Е	No
Rumpus	ALM-005-03 A	W004	2060	850	Tilt 'n' Turn	60	Е	No
Entry	TIM-001-01 W	Entry door	2340	600	Casement	90	Е	No
Media	ALM-005-03 A	W005	2060	850	Tilt 'n' Turn	60	Е	No
Media	ALM-005-03 A	W006	2060	850	Tilt 'n' Turn	60	E	No

Roof window* type and performance value

Default roof windows*

Window ID	Window	Window Maximum		Substitution tolerance ranges		
window iD	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
No Data Avail	able			_	_	

Custom roof windows*

Window ID	Window	Maximum		Substitution tolerance ranges		
window iD	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 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 [m²]	Outdoor shade	Diffuser
No Data Available						



External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Entry	2340	300	90	E
Entry	2340	300	90	E
Garage Part	2200	4800	90	E

External wall type

Wall ID	Wall type	Solar Wall shade absorptance [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW-1	AAC Timber Stud Frame on Battens	0.44	Anti-glare foil with bulk no gap R2.5	No
EW-2	AAC Timber Stud Frame on Battens	0.44	No insulation	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	2775	2490	S	450	No
Laundry	EW-1	2700	1990	S	450	No
Butlers	EW-1	2700	2195	S	450	No
Butlers	EW-1	2700	4595	W	450	No
Ktch/Liv/Din	EW-1	2700	2995	W	450	Yes
Ktch/Liv/Din	EW-1	2700	700	N	15250	No
Ktch/Liv/Din	EW-1	2700	7195	W	3550	Yes
Bed 2	EW-1	2700	3190	W	3550	No
Master	EW-1	2700	4400	W	450	No
Master	EW-1	2700	4095	N	450	No
Master	EW-1	2700	3100	S	10650	Yes
Ens/Master	EW-1	2700	2790	N	450	No
Bath	EW-1	2700	2890	N	450	No
Bed 4	EW-1	2700	4195	N	450	No
Bed 4	EW-1	2700	3095	Е	450	No
Bed 3	EW-1	2700	3195	Е	450	No
Bed 3	EW-1	2700	1000	S	16550	No
Rumpus	EW-1	2701	1795	E	1450	Yes



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Rumpus	EW-1	2700	2100	Е	1900	Yes
Rumpus	EW-1	2700	1000	S	12650	No
Entry	EW-1	2700	1890	E	2900	No
Media	EW-1	2700	1000	N	12550	No
Media	EW-1	2701	2100	E	1900	Yes
Media	EW-1	2700	1795	E	1450	Yes
Garage Part	EW-1	2775	1100	N	16450	No
Garage Part	EW-2	2775	6400	Е	350	No
Garage Part	EW-1	2775	4995	S	450	No

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	39.96	Bulk Insulation, No Air Gap R2.5
IW-002	Timber Stud Frame, Direct Fix Plasterboard	218.16	No insulation

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage	Suspended Concrete Slab 150mm	14.06	Enclosed	Bulk Insulation in Contact with Floor R4	n Bare
Laundry	Suspended Concrete Slab 150mm	8.48	Enclosed	Bulk Insulation in Contact with Floor R4	n Ceramic Tiles 8mm
Butlers	Suspended Concrete Slab 150mm	9.76	Enclosed	Bulk Insulation in Contact with Floor R4	n Cork Tiles or Parquetry 8mm
Ktch/Liv/Din	Suspended Concrete Slab 150mm	49.84	Enclosed	Bulk Insulation in Contact with Floor R4	n Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bed 2	Suspended Concrete Slab 150mm	10.82	Enclosed	Bulk Insulation in Contact with Floor R4	Carpet+Rubber Underlay 18mm
Powder	Waffle pod slab 300 mm 100mm	2.36	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Linen	Waffle pod slab 300 mm 100mm	1.21	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Master	Suspended Concrete Slab 150mm	19.12	Enclosed	Bulk Insulation in Contact with Floor R4	Carpet+Rubber Underlay 18mm
Wir/Master	Suspended Concrete Slab 150mm	3.67	Enclosed	Bulk Insulation in Contact with Floor R4	Carpet+Rubber Underlay 18mm
Ens/Master	Suspended Concrete Slab 150mm	4.58	Enclosed	Bulk Insulation in Contact with Floor R4	Ceramic Tiles 8mm
Bath	Waffle pod slab 300 mm 100mm	7.95	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Bed 4	Waffle pod slab 300 mm 100mm	12.03	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Bed 3	Waffle pod slab 300 mm 100mm	10.93	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Wir/Bed 3	Waffle pod slab 300 mm 100mm	2.47	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Rumpus	Waffle pod slab 300 mm 100mm	14.89	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Entry	Waffle pod slab 300 mm 100mm	5.28	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Media	Waffle pod slab 300 mm 100mm	14.76	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Hwy	Waffle pod slab 300 mm 100mm	10.58	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm
Garage Part	Waffle pod slab 300 mm 100mm	31.56	None	Waffle Pod 300mm	Bare
Ktch/Liv Part	Waffle pod slab 300 mm 100mm	8.64	None	Waffle Pod 300mm	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Hwy Part	Suspended Concrete Slab 150mm	1.41	Enclosed	Bulk Insulation in Contact with Floor R4	n 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 R3	
Laundry	Plasterboard on Timber	Bulk Insulation R6	
Laundry	Plasterboard on Timber	Bulk Insulation R2.5	
Butlers	Plasterboard on Timber	Bulk Insulation R6	
Butlers	Plasterboard on Timber	Bulk Insulation R2.5	
Ktch/Liv/Din	Plasterboard on Timber	Bulk Insulation R6	
Ktch/Liv/Din	Plasterboard on Timber	Bulk Insulation R2.5	
Bed 2	Plasterboard on Timber	Bulk Insulation R6	
Powder	Plasterboard on Timber	Bulk Insulation R6	
Linen	Plasterboard on Timber	Bulk Insulation R6	
Master	Plasterboard on Timber	Bulk Insulation R6	
Master	Plasterboard on Timber	Bulk Insulation R2.5	
Wir/Master	Plasterboard on Timber	Bulk Insulation R6	
Ens/Master	Plasterboard on Timber	Bulk Insulation R6	
Ens/Master	Plasterboard on Timber	Bulk Insulation R2.5	
Bath	Plasterboard on Timber	Bulk Insulation R6	
Bath	Plasterboard on Timber	Bulk Insulation R2.5	
Bed 4	Plasterboard on Timber	Bulk Insulation R6	
Bed 4	Plasterboard on Timber	Bulk Insulation R2.5	
Bed 3	Plasterboard on Timber	Bulk Insulation R6	
Bed 3	Plasterboard on Timber	Bulk Insulation R2.5	
Wir/Bed 3	Plasterboard on Timber	Bulk Insulation R6	
Rumpus	Plasterboard on Timber	Bulk Insulation R6	
Entry	Plasterboard on Timber	Bulk Insulation R6	
Media	Plasterboard on Timber	Bulk Insulation R6	

0011713682 NatH	IERS Certificate 7 Star Rat	ting as of 13 Feb 2025	HOUSE
Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Hwy	Plasterboard on Timber	Bulk Insulation R6	
Garage Part	Plasterboard on Timber	Bulk Insulation R3	
Ktch/Liv Part	Plasterboard on Timber	Bulk Insulation R6	
Hwy Part	Plasterboard on Timber	Bulk Insulation R6	

Ceiling penetrations*

Quantity	Туре	Diameter [mm]	Sealed/unsealed
2	Downlights - LED	0	Sealed
3	Downlights - LED	0	Sealed
22	Downlights - LED	0	Sealed
1	Exhaust Fans	300	Sealed
4	Downlights - LED	0	Sealed
1	Downlights - LED	0	Sealed
1	Exhaust Fans	300	Sealed
1	Downlights - LED	0	Sealed
8	Downlights - LED	0	Sealed
1	Downlights - LED	0	Sealed
1	Downlights - LED	0	Sealed
2	Downlights - LED	0	Sealed
5	Downlights - LED	0	Sealed
4	Downlights - LED	0	Sealed
1	Downlights - LED	0	Sealed
6	Downlights - LED	0	Sealed
2	Downlights - LED	0	Sealed
6	Downlights - LED	0	Sealed
4	Downlights - LED	0	Sealed
2	Downlights - LED	0	Sealed
1	Downlights - LED	0	Sealed
	2 3 22 1 4 1 1 1 2 5 4 1 6 2 6 4 2	2 Downlights - LED 3 Downlights - LED 22 Downlights - LED 1 Exhaust Fans 4 Downlights - LED 1 Downlights - LED 1 Downlights - LED 1 Downlights - LED 2 Downlights - LED 2 Downlights - LED 4 Downlights - LED 5 Downlights - LED 6 Downlights - LED 2 Downlights - LED 2 Downlights - LED 3 Downlights - LED 4 Downlights - LED 5 Downlights - LED 6 Downlights - LED 6 Downlights - LED 7 Downlights - LED 8 Downlights - LED 9 Downlights - LED 9 Downlights - LED 9 Downlights - LED 9 Downlights - LED	2 Downlights - LED 0 3 Downlights - LED 0 22 Downlights - LED 0 1 Exhaust Fans 300 4 Downlights - LED 0 1 Downlights - LED 0 2 Downlights - LED 0 3 Downlights - LED 0 4 Downlights - LED 0 5 Downlights - LED 0 4 Downlights - LED 0 5 Downlights - LED 0 6 Downlights - LED 0 4 Downlights - LED 0 2 Downlights - LED 0 4 Downlights - LED 0 2 Downlights - LED 0

Ceiling fans

Location	Quantity	Diameter [mm]
Bed 2	1	1200

0011713682 NatHERS Certificate	7 Star Rating as of 13 Feb 2025		MATIONWIDE HOUSE
Location	Quantity	Diameter [mm]	
Master	1	1200	
Bed 4	1	1200	
Bed 3	1	1200	
Rumpus	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 R1.8	0.67	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				
Heating system				
Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available				
Hot water system				
	Hot	Minimum	Zone 3 Su	bstitution Assess

Appliance/ system type	Fuel type	Water	efficiency	STC	toleranc	e ranges	daily load
		CER Zone	/STC	310	lower limit	upper limit	[litres]
No Data Available							



Pool/spa equipment

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* (eq eaves and balconies)