Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. #HR-H2HHRN-01

Generated on 25 Jan 2025 using Hero 4.1 (Chenath v3.23)

Property

Address

Lot/DP

Unit 05, 267 VICTORIA STREET Taree, NSW, 2430 Lot 19/14 DP 3259

NCC Class* Floor/all Floors Type 1a 1 of 3 floors New

Plans

Main Plan18.11.24 REV CPrepared byCWC

Construction and environment

Assessed floor a	rea (m²)
Conditioned*	98.1
Unconditioned*	5.2
Total	127.4
Garage	24.0

Suburban NatHERS climate zone

15 - Williamtown AMO

Exposure Type

CCREDIAR VSSESSOT

Accredited assessor

Name		
Business n	ame	
Email		
Phone		
Accreditati	on No.	
Assessor A		ing
Organisatio	on 🕞	
Declaration	of inte	rest

Adam Clarke 10 Star Building Assessments admin@10sba.com +61 481010999 101518 ABSA

erest No Conflict of Interest

NCC Requirements

BCA provisions

Volume 2

Yes

State/Territory variation

National Construction Code (NCC) requirements

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

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

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

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

Thermal performance star rating



The more stars

the more energy efficient

49.9 MJ/m²

R

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	29.4	20.5
oad limits	42	32

Features determining load limits

Floor type(lowest conditioned area)CSOGNCC climate zone 1 or 2NOutdoor living areaNOutdoor living area ceiling fanN

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 http://www.hero-software.com au/pdf/HR-H2HHRN-01. When using either link, ensure you are visiting

ensure you are visiting http://www.hero-software. com.au



* Refer to glossary.

Generated on 25 Jan 2025 using Hero 4.1 for Unit 05, 267 VICTORIA STREET, Taree, 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 and Cooling Load Limits

Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the *ABCB Standard: NatHERS heating and cooling load limits* for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

Setting options:

Floor type:

CSOG - Concrete Slab on Ground SF - Suspended Floor (or a mixture of CSOG and SF) NA - Not Applicable

NCC climate Zone 1 or 2:

Yes

No

NA - Not Applicable

Outdoor living area:

Yes

No

NA - Not Applicable

Outdoor living area ceiling fan:

- Yes
- No

NA - Not Applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar.

Energy use:



Greenhouse gas emissions:

Cost:







Certificate check	Approva	Approval stage		Construction stage	
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 who should check each item. It is not mandatory to complete this checklist.	Asses	Conse survey	Builde	Conse survey	Occup
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 <i>Window and glazed door</i> <i>schedule</i> ' and <i>'Roof window schedule</i> ' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the <i>'Window and glazed door type and performance'</i> and <i>'Roof window type and performance'</i> 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 ' <i>External wall type table</i> ' on this Certificate?					
Does the external wall shade (colour) match what is shown in the ' <i>External wall type</i> ' 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 <i>'Floor type'</i> 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 <i>'Ceiling type'</i> table on this Certifi cate?					
Roof					
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the ' <i>Roof type</i> ' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown on the NatHERS-stamped plans?					

7.1 Star Rating as of 25 Jan 2025



Certificate check		stage	Construc stage		
Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other

Additional NCC requirements for thermal performance (not included in the NatHERS assessment)

Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
Has the insulation been installed according to the NCC requirements?					
Building sealing					
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home	e assessr	nent is no	ot conduc	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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 NatHE	RS asses	ssment)			
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. A include, but are not limited to: condensation, structural and fire safety requirements					

energy efficiency requirements.



Room schedule

Room	Zone Type	Area (m²)
GARAGE	Garage	24.05
BATH	Day Time	6.81
Stairs (TOP)	Day Time	4.41
BED 2	Bedroom	9.92
Stairs (MID)	Day Time	7.08
Hallway	Day Time	6.71
FOYER	Day Time	9.83
L'DRY	Unconditioned	5.17
Master (1)	Bedroom	13.58
WC	Day Time	2.32
BED 3	Bedroom	9.06
KITCHEN	Kitchen/Living	36.22

Window and glazed door type and performance

Default* windows

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

Custom* windows

Window ID	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges	
		U-value*		lower limit	upper limit
AWS-001-002	RESIDENTIAL SERIES 502/504 SLIDING WINDOW - SINGLE GLAZED	6.38	0.72	0.68	0.75
AWS-005-011	RESIDENTIAL SERIES 514 DOUBLE HUNG - SINGLE GLAZED	4.50	0.54	0.51	0.57
AWS-013-004	RESIDENTIAL SERIES 541/542 SLIDING DOOR -DOUBLE GLAZED	3.43	0.57	0.54	0.60
AWS-018-018	RESIDENTIAL SERIES 549 ENTRY DOOR - SINGLE GLAZED	4.41	0.46	0.44	0.49



Custom* windows

Window ID	/indow ID Window Description Maximum	SHGC*	SHGC substitution tolerance ranges		
		U-value*		lower limit	upper limit
AWS-031-047	ARCHITECTURAL SERIES 463 DOUBLE HUNG WINDOW- DOUBLE GLAZED	3.63	0.42	0.40	0.44
AWS-066-002	RESIDENTIAL SERIES 516 FIXED WINDOW - SINGLE GLAZED	3.94	0.47	0.44	0.49
AWS-067-027	RES SERIES 516 FIXED WINDOW	2.19	0.41	0.39	0.43

Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
BED 2	AWS-005-011	5W10-A	900	803	Double Hung	20	NE	None
BED 2	AWS-005-011	5W10-C	900	803	Double Hung	20	NE	None
BED 2	AWS-066-002	5W10-B	900	803	Fixed	0	NE	None
BED 3	AWS-005-011	5W09-A	900	803	Double Hung	20	NE	None
BED 3	AWS-066-002	5W09-B	900	803	Fixed	0	NE	None
BED 3	AWS-005-011	5W09-C	900	803	Double Hung	20	NE	None
FOYER	AWS-031-047	5W01	1800	735	Double Hung	45	SW	None
FOYER	AWS-018-018	5GD01	2050	920	Hinged Door	90	SW	None
KITCHEN	AWS-031-047	5W05-B	1200	600	Double Hung	45	NE	None
KITCHEN	AWS-067-027	5W05-C	600	600	Fixed	0	NE	None
KITCHEN	AWS-013-004	5GD02	2100	2110	Sliding Door	45	NW	None
KITCHEN	AWS-031-047	5W06-A	900	803	Double Hung	45	NE	None
KITCHEN	AWS-031-047	5W06-C	900	803	Double Hung	45	NE	None
KITCHEN	AWS-067-027	5W06-B	900	803	Fixed	0	NE	None
KITCHEN	AWS-067-027	5W03	600	1800	Fixed	0	SW	None
L'DRY	AWS-001-002	5W02	1030	1510	Sliding	45	NE	None
Master (1)	AWS-005-011	5W08-A	900	703	Double Hung	20	NW	None
Master (1)	AWS-005-011	5W08-C	900	703	Double Hung	20	NW	None
Master (1)	AWS-066-002	5W08-B	900	703	Fixed	0	NW	None



Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
Master (1)	AWS-005-011	5W07-C	900	883	Double Hung	20	SW	None
Master (1)	AWS-005-011	5W07-A	900	883	Double Hung	20	SW	None
Master (1)	AWS-066-002	5W07-B	900	883	Fixed	0	SW	None
Stairs (MID)	AWS-067-027	5W04-C	1800	822	Fixed	0	SW	None
Stairs (MID)	AWS-031-047	5W04-A	1200	822	Double Hung	45	SW	None
Stairs (MID)	AWS-067-027	5W04-B	600	822	Fixed	0	SW	None
Stairs (MID)	AWS-067-027	5W05-A	1800	600	Fixed	0	NE	None

Roof window type and performance value

Default* roof windows

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

Custom* roof windows

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

Roof window schedule

Location	Window ID	Window no.	Opening %	Height (mm)	Width (mm)	Orient- ation	Outdoor shade	Indoor shade	
None									

Skylight type and performance						
Skylight ID	Skylight description					
None						

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m²)	Orient- ation	Outdoor shade	Diffuser	Shaft Reflectance
None								



External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
GARAGE	2040	3200	90	NE
GARAGE	2040	3200	90	SW
L'DRY	2040	820	90	SE

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
BV-NONREFL-CAV	Brick Veneer Stud Wall with Non-Reflective Sarking	0.50	Medium	2.70	No
CSR-2405	CSR-2405	0.50	Medium	4.00	No
DBL-BRICK-110-110-EXP	Double Brick - 110mm/110mm Exposed	0.50	Medium	0.00	No
PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)	0.50	Medium	2.70	No

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
BED 2	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2440	2998	NE	572	Yes
BED 2	CSR-2405	2440	311	SE		Yes
BED 3	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2440	1361	SE	476	Yes
BED 3	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2440	3014	NE	530	Yes
FOYER	BV-NONREFL-CAV	2440	864	SE	3777	Yes
FOYER	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2440	2021	SW		Yes
GARAGE	BV-NONREFL-CAV	2440	2000	NW		Yes



External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
GARAGE	DBL-BRICK-110-110-EXP	2440	4008	NE	2988	Yes
GARAGE	DBL-BRICK-110-110-EXP	2440	4008	SW	449	Yes
GARAGE	CSR-2405	2440	231	SE		Yes
Hallway	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2440	199	NW		Yes
Hallway	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	1890	1007	SW	674	Yes
KITCHEN	BV-NONREFL-CAV	2580	2602	NW	574	Yes
KITCHEN	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2580	1010	NE	3046	Yes
KITCHEN	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2580	2531	NW	3040	Yes
KITCHEN	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2580	3103	NE	522	Yes
KITCHEN	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2580	4008	SW	670	Yes
KITCHEN	CSR-2405	2580	885	SE	1764	Yes
KITCHEN	CSR-2405	2580	3445	SE	2922	Yes
L'DRY	BV-NONREFL-CAV	2440	2021	NE		Yes
L'DRY	BV-NONREFL-CAV	2440	2557	SE	3777	Yes
L'DRY	BV-NONREFL-CAV	2440	1816	NW	3828	Yes
Master (1)	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2440	3387	NW	695	Yes
Master (1)	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2440	4008	SW	642	Yes



External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Master (1)	CSR-2405	2440	805	SE	1942	Yes
Master (1)	CSR-2405	2440	1163	SE		Yes
Stairs (MID)	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2580	2021	SW	715	Yes
Stairs (MID)	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2580	2021	NE	3046	Yes
Stairs (TOP)	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	1890	996	SW	674	Yes

Internal wall type

Wall ID	Wall Type	Area (m ²)	Bulk insulation
CSR-2405	CSR-2405	85.6	4.00
INT-PB	Internal Plasterboard Stud Wall	57.6	0.00
INT-PB	Internal Plasterboard Stud Wall	1.1	2.70
INT-PB	Internal Plasterboard Stud Wall	11.4	2.00

Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
BATH	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	6.8	N/A	0.15	Tile (8mm)
BED 2	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	9.9	N/A	0.15	Carpet
BED 3	LT-CONC-SUBFLR-35-LINED: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC) - Lined Below	9.1	N/A	4.00	Carpet
FOYER	CSOG-125: Concrete Slab on Ground (125mm)	9.8	N/A	2.00	Tile (8mm)
GARAGE	CSOG-125: Concrete Slab on Ground (125mm)	24.0	N/A	0.00	Exposed
Hallway	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	6.8	N/A	0.15	Vinyl
KITCHEN	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	24.0	N/A	2.00	Vinyl
KITCHEN	LT-CONC-SUBFLR-35-LINED: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC) - Lined Below	12.1	N/A	4.00	Vinyl



Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
L'DRY	CSOG-125: Concrete Slab on Ground (125mm)	5.2	N/A	0.00	Tile (8mm)
Master (1)	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	13.6	N/A	0.15	Carpet
Stairs (MID)	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	7.1	N/A	0.15	Vinyl
Stairs (TOP)	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	4.4	N/A	0.15	Vinyl
WC	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	2.3	N/A	0.15	Tile (8mm)

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
BATH	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
BED 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
BED 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
Hallway	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
KITCHEN	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	Yes
L'DRY	FLAT-03: Flat Framed / Skillion Tile Roof & Flat PB Ceiling	4.00	No
Master (1)	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
Stairs (MID)	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	Yes
Stairs (TOP)	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
BATH	1	Exhaust Fan	300	Sealed
BATH	2	Downlight	100	Sealed
BED 2	2	Downlight	100	Sealed
BED 3	2	Downlight	100	Sealed
FOYER	2	Downlight	100	Sealed
Hallway	2	Downlight	100	Sealed



Ceiling *penetrations**

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
KITCHEN	1	Exhaust Fan	250	Sealed
KITCHEN	8	Downlight	100	Sealed
L'DRY	1	Exhaust Fan	250	Sealed
L'DRY	1	Downlight	100	Sealed
Master (1)	3	Downlight	100	Sealed
Stairs (MID)	2	Downlight	100	Sealed
Stairs (TOP)	2	Downlight	100	Sealed
WC	1	Exhaust Fan	250	Sealed
WC	1	Downlight	100	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
BED 2	1	1300
BED 3	1	1300
KITCHEN	1	1500
Master (1)	1	1300

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	1.30	0.50	Medium
FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	1.30	0.50	Medium
FLAT-03: Flat Framed / Skillion Tile Roof & Flat PB Ceiling	0.00	0.50	Medium

Thermal bridging schedule for steel frame elements

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

Appliance schedule

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



Cooling system

Туре	Location	Fuel Type eff	inimum Recommended ficiency / capacity erformance	
No Whole of Hon	ne Data			

Heating system

Туре	Location	, i	imum Recommended ciency / capacity formance	
No Whole of Hor	ne Data			

Hot water system

No Whole of Home Data			
Pool / spa equipment			
Type Fuel type	Minimum efficiency / performance	ca	ecommended ipacity

Onsite Renewable Energy schedule

Туре	Orientatation	Generation Capacity [kW]
No Whole of Home Data		

Battery schedule

Туре	
No Whole of Home Data	

Storage Capacity [kWh]



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

Glossary

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.

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
COP	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose 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 - suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category - protected	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.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
STCs	Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small- scale Renewable Energy Scheme operated by the Clean Energy Regulatory
Thermal breaks	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels.
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).
Window shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)

* Refer to glossary.