Nationwide House Energy Rating Scheme[®] Class 1 Summary

NatHERS® Certificate No. #HR-ZW04Z0-01

Generated on 09 May 2025 using Hero 4.1

Property

Address 8 Haddon Crescent, Revesby, NSW, 2212

Lot/DP 8/24338

NatHERS climate zone 56 - Mascot AMO



Accredited assessor

Name Business name

Email Phone

Accreditation No.
Assessor Accrediting
Organisation

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10205

HERA

Verification

To verify this certificate, scan the QR code or visit http://www.hero-software.com.au/pdf/HR-ZW04Z0-01. When using either link,

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



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



HOUSE ENERGY RATING SCHEME

The rating above is the minimum of all dwellings in this summary.

For more information on your dwelling's rating see:

www.nathers.gov.au

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate or not completed for all dwellings.

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m².yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Rating
HR-NICUTS-01	Unit 01	7.3 (25)	17.7 (18)	24.9	7.5	n/a
HR-QZ429M-01	Unit 02	13.4 (25)	14.8 (18)	28.2	7.2	n/a
HR-AGC5FC-01	Unit 03	12.0 (25)	17.7 (18)	29.7	7.0	n/a
HR-NBYZUI-01	Unit 04	10.8 (25)	17.9 (18)	28.7	7.1	n/a



Explanatory notes

About the ratings

This is a summary of NCC Class 1 dwellings in a development. For more details of each dwelling refer to the individual dwelling's certificate using the certificate number in summary of all dwellings table.

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 energy loads and societal cost. 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 production and storage to estimate the homes societal cost.

For more details about an individual dwelling's assessment, refer to the individual dwelling's NatHERS Certificate (accessible via link).

Accredited Assessors

For high quality 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.

Licensed assessors in the Australian Capital Territory (ACT) can produce assessments for regulatory purposes only, using endorsed software, as listed on the ACT licensing register.

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 certificates 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 use, 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 while using the NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor.

Nationwide House Energy Rating Scheme® NatHERS® Certificate No. #HR-NICUTS-01

Generated on 09 May 2025 using Hero 4.1 (Chenath v3.23)

Property

Address Unit 01, 8 Haddon Crescent, Revesby,

NSW, 2212

Lot/DP 8/24338

NCC Class* 1a

Floor/all Floors 1 of 2 floors

Type New

Plans

Main Plan REV 1

Prepared by NLQS DESIGNS

Construction and environment

Assessed floor area (m²)* Exposure Type

Conditioned* 199.1 Suburban

Unconditioned* 3.3 NatHERS climate zone

Total 221.4 56 - Mascot AMO

Garage 19.0



Accredited assessor

Name Elias Aboutannous

Business name eCerts

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Phone +61 423475437

Accreditation No. 10205
Assessor Accrediting HERA

Organisation

Declaration of interest No Conflict of Interest

NCC Requirements

BCA provisions Volume 2

State/Territory variation Yes

National Construction Code (NCC) requirements

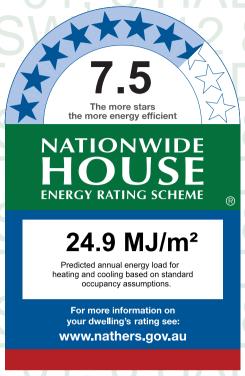
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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



Thermal performance (MJ/m²)

Limits taken from ABCB Standard 2022

	Heating	Cooling			
Modelled	7.3	17.7			
Load limits	25	18			

Features determining load limits

Floor type
(lowest conditioned area) CSOG
NCC climate zone 1 or 2 N
Outdoor living area N

Outdoor living area ceiling fan N

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-NICUTS-01.

When using either link, ensure you are visiting http://www.hero-software.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.

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:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

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Certificate check	Approva	stage	Construc 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	ent authority/	Builder checked	ent authority/	Occupancy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Asse	Consent	Build	Consent	nooo
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 <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 '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 <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 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown on the NatHERS-stamped plans?					

7.	5 S	Star	Rating	as of	09	Mav	2025
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Certificate check	Approva	l stage	Construction stage		
Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Additional NCC requirements for thermal performance (not included i	n the Nat	HERS ass	sessment	t)	
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	cted)	
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 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.	dditional re and any st	quirements ate or territ	that must ory variation	also be sat	isfied ICC



Additional Notes

ALL DWELLINGS:

- Shading to existing fence line and house modelled as per NatHERS technical Notes
- The side and rear fence heights of the neighbouring building are to be 1.8m where local planning requirements are unknown.
- Heights of the neighbouring building have been modelled to include all known site level changes that will impact on shading the dwelling being rated.
- Slab on ground- NIL extra insulation required
- Brick Veneer with R2.5 bulk insulation and vapour pearmeable wall wrap to external walls (garage walls NIL bulk insulation, wrap only)
- Insulation under roof material:- Anticon Blanket (R1.3)
- Windows internal curtains:- N/a

DWELLING 01 & 03:

- Insulation at CEILING level:- R6.0 bulk insulation
- Double Glazed Low-E Clear Glazing Or Glazing Equal To Or Better Than Values Given In This Report

DWELLING 02 & 04:

- Insulation at CEILING level:- R5.0 bulk insulation
- Generic Single Glazed Clear Glazing (Nathers Default Windows) Or Glazing Equal To Or Better Than Values Given In This Report

Room schedule

Room	Zone Type	Area (m²)
GARAGE	Garage	19.02
WC	Day Time	3.38
ENTRY/LIVING	Living	35.73
KITCHEN/DINING/RUMPUS	Kitchen/Living	62.75
BED 1	Bedroom	24.26
BED 2	Bedroom	11.18
ENS	Night Time	8.12
ENS	Night Time	5.75
ВАТН	Day Time	6.23
BED 3	Bedroom	12.12
BED 4	Bedroom	14.09
HALL	Day Time	20.09
LAUNDRY	Unconditioned	3.34



Room schedule

Room	Zone Type	Area (m²)
WIP	Day Time	4.46

Window and glazed door type and performance

Default* windows

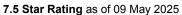
Window ID	Window Description	Maximum SHGC	* tolerance ranges
	·	U-value*	lower limit upper limit
None			

Custom* windows

Window ID	Window Description Maximum		SHGC*	SHGC substitution tolerance ranges		
	•	U-value*		lower limit	upper limit	
WID-101-002	Horizon Awning Window	3.35	0.49	0.46	0.51	
WID-102-021	Horizon Sliding Window	3.31	0.51	0.49	0.54	
WID-104-020	Horizon Sliding Door	2.94	0.55	0.52	0.58	
WID-122-021	Paragon Entry Door	3.39	0.43	0.41	0.45	

Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
BED 1	WID-104-020	W21	2400	3000	Sliding Door	45	SE	None
BED 1	WID-104-020	W22	900	5000	Fixed	0	SE	None
BED 1	WID-104-020	W23	900	9000	Fixed	0	SW	None
BED 2	WID-102-021	W20	700	3650	Sliding	45	NE	None
BED 2	WID-102-021	W19	1400	1500	Sliding	45	NW	None
BED 3	WID-102-021	W14	700	2400	Sliding	30	NE	None
BED 3	WID-102-021	W15	1400	1500	Sliding	45	SE	None
BED 4	WID-102-021	W12	700	3000	Sliding	30	NW	None
BED 4	WID-102-021	W13	700	3000	Sliding	30	NE	None
ENS	WID-101-002	W11	700	1200	Awning	45	NW	None
ENTRY/LIVING	WID-122-021	W09	2400	1000	Hinged Door	90	NE	None





Window and glazed door schedule

ENTRY/LIVING WID-122-021	Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
ENTRY/LIVING WID-104-020 GROUND FLOOR 2700 450 Fixed 0 SE None ENTRY/LIVING WID-104-020 W08 2400 3000 Sliding Door 60 NW None GARAGE WID-104-020 W10 700 3000 Fixed 0 NE None HALL WID-104-020 W17 2400 800 Fixed 0 NE None HALL WID-104-020 W18 2400 800 Fixed 0 NE None KITCHEN/DINING /RUMPUS WID-104-020 W06 2400 2000 Sliding Door 45 SE None KITCHEN/DINING /RUMPUS WID-104-020 W07 2400 5100 Sliding Door 60 NE None KITCHEN/DINING /RUMPUS WID-104-020 W02 2400 4000 Sliding Door 70 NW None ENTRY/I IVING WID-102-021 W03 2400 1000 Hinged Door NW	ENTRY/LIVING	WID-122-021	(HINGED) GROUND	2700	950	-	90	SE	None
GARAGE WID-104-020 W10 700 3000 Fixed 0 NE None HALL WID-104-020 W16 2400 800 Fixed 0 NE None HALL WID-104-020 W17 2400 800 Fixed 0 NE None HALL WID-104-020 W17 2400 800 Fixed 0 NE None HALL WID-104-020 W18 2400 800 Fixed 0 NE None KITCHEN/DINING WID-104-020 W06 2400 2000 Sliding Door 45 SE None KITCHEN/DINING WID-104-020 W07 2400 5100 Sliding Door 60 NE None KITCHEN/DINING WID-104-020 W02 2400 4000 Sliding Door 70 NW None KITCHEN/DINING WID-104-020 W02 2400 4000 Sliding Door 70 NW None KITCHEN/DINING WID-104-020 W02 2400 4000 Sliding Door 70 NW None KITCHEN/DINING WID-102-021 W05 700 2900 Sliding 30 NE None KITCHEN/DINING WID-102-021 W03 2400 1000 Hinged Door 90 NW None	ENTRY/LIVING	WID-104-020	GROUND	2700	450	Fixed	0	SE	None
HALL WID-104-020 W17 2400 800 Fixed 0 NE None HALL WID-104-020 W17 2400 800 Fixed 0 NE None HALL WID-104-020 W18 2400 800 Fixed 0 NE None KITCHEN/DINING WID-104-020 W06 2400 2000 Sliding Door 45 SE None KITCHEN/DINING WID-104-020 W07 2400 5100 Sliding Door 60 NE None KITCHEN/DINING WID-104-020 W02 2400 4000 Sliding Door 70 NW None KITCHEN/DINING WID-104-020 W02 2400 4000 Sliding Door 70 NW None KITCHEN/DINING WID-102-021 W05 700 2900 Sliding 30 NE None LAUNDRY WID-102-021 W03 2400 1000 Hinged Door 90 NW None	ENTRY/LIVING	WID-104-020	W08	2400	3000	•	60	NW	None
HALL WID-104-020 W17 2400 800 Fixed 0 NE None HALL WID-104-020 W18 2400 800 Fixed 0 NE None KITCHEN/DINING /RUMPUS WID-104-020 W06 2400 2000 Sliding Door 45 SE None KITCHEN/DINING /RUMPUS WID-104-020 W07 2400 5100 Sliding Door 60 NE None KITCHEN/DINING /RUMPUS WID-104-020 W02 2400 4000 Sliding Door 70 NW None KITCHEN/DINING /RUMPUS WID-102-021 W05 700 2900 Sliding Door 30 NE None LAUNDRY WID-122-021 W03 2400 1000 Hinged Door 90 NW None	GARAGE	WID-104-020	W10	700	3000	Fixed	0	NE	None
HALL WID-104-020 W18 2400 800 Fixed 0 NE None KITCHEN/DINING /RUMPUS WID-104-020 W06 2400 2000 Sliding Door 45 SE None KITCHEN/DINING /RUMPUS WID-104-020 W07 2400 5100 Sliding Door 60 NE None KITCHEN/DINING /RUMPUS WID-104-020 W02 2400 4000 Sliding Door 70 NW None KITCHEN/DINING /RUMPUS WID-102-021 W05 700 2900 Sliding Door 30 NE None LAUNDRY WID-122-021 W03 2400 1000 Hinged Door 90 NW None	HALL	WID-104-020	W16	2400	800	Fixed	0	NE	None
KITCHEN/DINING	HALL	WID-104-020	W17	2400	800	Fixed	0	NE	None
/RUMPUS WID-104-020 W06 2400 2000 Door 45 SE None KITCHEN/DINING /RUMPUS WID-104-020 W07 2400 5100 Sliding Door 60 NE None KITCHEN/DINING /RUMPUS WID-104-020 W02 2400 4000 Sliding Door 70 NW None LAUNDRY WID-102-021 W03 2400 1000 Hinged Door 90 NW None ENTRY/LIVING WID-104-020 W01 (FIXED) 2600 1399 Fixed 0 SE None	HALL	WID-104-020	W18	2400	800	Fixed	0	NE	None
/RUMPUS WID-104-020 W07 2400 5100 Door 60 NE None KITCHEN/DINING /RUMPUS WID-104-020 W02 2400 4000 Sliding Door 70 NW None KITCHEN/DINING /RUMPUS WID-102-021 W05 700 2900 Sliding 30 NE None LAUNDRY WID-122-021 W03 2400 1000 Hinged Door 90 NW None ENTRY/LIVING WID-104-020 W01 (FIXED) 2600 1399 Fixed 0 SE None		WID-104-020	W06	2400	2000	-	45	SE	None
/RUMPUS WID-104-020 W02 2400 4000 Door 70 NW None KITCHEN/DINING /RUMPUS WID-102-021 W05 700 2900 Sliding 30 NE None LAUNDRY WID-122-021 W03 2400 1000 Hinged Door 90 NW None ENTRY/UVING WID-104-020 W01 (FIXED) 2600 1399 Fixed 0 SE None		WID-104-020	W07	2400	5100	•	60	NE	None
/RUMPUS WID-102-021 W05 700 2900 Sliding 30 NE None LAUNDRY WID-122-021 W03 2400 1000 Hinged Door 90 NW None ENTRY///////IN/ING WID-104-020 W01 (FIXED) 2600 1399 Fixed 0 SE None		WID-104-020	W02	2400	4000	•	70	NW	None
ENTRY/ IVING WID-122-021 W03 2400 1000 Door 90 NW None W01 (FIXED) 2600 1399 Fixed 0 SE None		WID-102-021	W05	700	2900	Sliding	30	NE	None
	LAUNDRY	WID-122-021	W03	2400	1000	-	90	NW	None
	ENTRY/LIVING	WID-104-020		2600	1399	Fixed	0	SE	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	SHGC*	SHGC substitution tolerance ranges
		U-value*	onoo	lower limit upper limit

Roof window schedule

Location	Window	Window	Opening	Height	Width	Orient-	Outdoor	Indoor
Location	ID	no.	%	(mm)	(mm)	ation	shade	shade

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
GEN-04-005a	Double-glazed Opal Skylight

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m²)	Orient- ation	Outdoor shade	Diffuser	Shaft Reflectance
BATH	GEN-04-005a	SKYLT 03	600	0.55	SW	None	Yes	80
HALL	GEN-04-005a	SKYLT 02	600	3.63	W	None	Yes	80
ENTRY/LIVING	GEN-04-005a	SKYLT 01	600	3.52	NW	None	Yes	80

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
GARAGE	2400	2500	90	SE

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
BV-REFL-CAV-A	Brick Veneer Stud Wall with Reflective Sarking	0.50	Medium	0.00	Yes
BV-REFL-CAV-B	Brick Veneer Stud Wall with Reflective Sarking	0.50	Medium	2.50	Yes

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
BED 1	BV-REFL-CAV-B	2600	4590	SE	2541	No
BED 1	BV-REFL-CAV-B	2600	4951	NE	393	Yes
BED 1	BV-REFL-CAV-B	1000	6092	SE		No
BED 1	BV-REFL-CAV-B	1000	9025	SW		Yes
BED 2	BV-REFL-CAV-B	2600	3650	NE	393	Yes
BED 2	BV-REFL-CAV-B	3600	3062	NW		Yes



External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
BED 3	BV-REFL-CAV-B	2600	3651	NE		No
BED 3	BV-REFL-CAV-B	2600	3320	SE		Yes
BED 4	BV-REFL-CAV-B	2600	4421	NW	2207	No
BED 4	BV-REFL-CAV-B	2600	3000	NE		No
ENS	BV-REFL-CAV-B	2600	1830	NW	2207	No
ENTRY/LIVING	BV-REFL-CAV-B	2700	4515	NE		Yes
ENTRY/LIVING	BV-REFL-CAV-B	2700	2491	SE	2522	Yes
ENTRY/LIVING	BV-REFL-CAV-B	2700	3037	NW		Yes
GARAGE	BV-REFL-CAV-A	2785	6001	NE		Yes
GARAGE	BV-REFL-CAV-A	2785	3601	SE	605	No
GARAGE	BV-REFL-CAV-A	2785	1685	SW		Yes
HALL	BV-REFL-CAV-B	2600	5415	NE		Yes
KITCHEN/DINING /RUMPUS	BV-REFL-CAV-B	2700	3295	SE		Yes
KITCHEN/DINING /RUMPUS	BV-REFL-CAV-B	2700	5189	NE		Yes
KITCHEN/DINING /RUMPUS	BV-REFL-CAV-B	2700	4014	NW	3326	Yes
KITCHEN/DINING /RUMPUS	BV-REFL-CAV-B	2700	5040	NE		Yes
LAUNDRY	BV-REFL-CAV-B	2700	1489	NE		Yes
LAUNDRY	BV-REFL-CAV-B	2700	2240	NW	3325	Yes
ENTRY/LIVING	BV-REFL-CAV-B	2600	1399	SE	2540	No
WIP	BV-REFL-CAV-B	2700	1992	NE		Yes

Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
INT-PB	Internal Plasterboard Stud Wall	18.5	2.50
INT-PB	Internal Plasterboard Stud Wall	115.9	0.00
Shaft/Party Wall	Shaft/Party Wall	114.6	2.50



Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
ВАТН	TIMB-002: Suspended Timber Floor - Lined Below	6.2	N/A	0.15	Tile (10mm)
BED 1	TIMB-002: Suspended Timber Floor - Lined Below	24.2	N/A	0.15	Tile (10mm)
BED 2	TIMB-002: Suspended Timber Floor - Lined Below	11.2	N/A	0.15	Tile (10mm)
BED 3	TIMB-002: Suspended Timber Floor - Lined Below	12.1	N/A	0.15	Tile (10mm)
BED 4	TIMB-002: Suspended Timber Floor - Lined Below	14.1	N/A	0.15	Tile (10mm)
ENS	TIMB-002: Suspended Timber Floor - Lined Below	13.8	N/A	0.15	Tile (10mm)
ENTRY/LIVING	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	35.7	N/A	0.56	Tile (10mm)
GARAGE	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	19.0	N/A	0.56	Exposed
HALL	TIMB-002: Suspended Timber Floor - Lined Below	20.1	N/A	0.15	Tile (10mm)
KITCHEN/DINING /RUMPUS	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	62.7	N/A	0.56	Tile (10mm)
LAUNDRY	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	3.3	N/A	0.56	Tile (10mm)
WC	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	3.4	N/A	0.56	Tile (10mm)
WIP	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	4.5	N/A	0.56	Tile (10mm)

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
BATH	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
BED 1	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
BED 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
BED 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
BED 4	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
ENS	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
ENTRY/LIVING	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
GARAGE	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes



Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
HALL	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
KITCHEN/DINING/RUMPUS	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
LAUNDRY	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
WIP	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
BATH	1	Exhaust Fan	350	Sealed
BED 1	4	Downlight	150	Sealed
BED 2	2	Downlight	150	Sealed
BED 3	2	Downlight	150	Sealed
BED 4	2	Downlight	150	Sealed
ENS	2	Exhaust Fan	350	Sealed
ENTRY/LIVING	6	Downlight	150	Sealed
HALL	3	Downlight	150	Sealed
KITCHEN/DINING/RUMPUS	1	Downlight	150	Sealed
KITCHEN/DINING/RUMPUS	1	Exhaust Fan	350	Sealed
LAUNDRY	1	Exhaust Fan	350	Sealed
VOID	1	Downlight	150	Sealed
WC	1	Exhaust Fan	350	Sealed
WIP	1	Downlight	150	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
BED 1	1	1800
BED 2	1	1800
BED 3	1	1800



Ceiling fans

Location	Quantity	Diameter (mm)
BED 4	1	1800
ENTRY/LIVING	1	1800
HALL	1	1800
KITCHEN/DINING/RUMPUS	2	1800

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

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)	
None					

Appliance schedule

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

Cooling system

Туре	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Home D	Data			
Heating system				
Туре	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Home D	Data			
Hot water system				

Hot water system

No Whole of Home Data					
		CER Zone	STC	[litres]	
Туре	Fuel type	Water	efficiency /	daily load	
		HOT	wiinimum	Assessea	

No Whole of Home Data

Pool / spa equipment

Туре	Fuel type	Minimum efficiency / performance	Recommended capacity
		portormanos	

No Whole of Home Data



Onsite Renewable Energy *schedule*

Туре	Orientatation	Generation Capacity [kW]
No Whole of Home Data		
Battery schedule		
Туре	Stora	nge Capacity [kWh]
No Whole of Home Data		

* Refer to glossary.

Generated on 09 May 2025 using Hero 4.1 for Unit 01, 8 Haddon Crescent, Revesby, NSW, 2212



Explanatory Notes

About this report

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

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

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

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

Accredited assessors

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

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

are not quality assured.

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

Disclaimer

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

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

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

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

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
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)

Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. #HR-QZ429M-01

Generated on 09 May 2025 using Hero 4.1 (Chenath v3.23)

Property

Address Unit 02, 8 Haddon Crescent, Revesby,

NSW, 2212

Lot/DP 8/24338

NCC Class* 1a

Floor/all Floors 1 of 1 floors

Type New

Plans

Main Plan REV

Prepared by NLQS DESIGNS

Construction and environment

Assessed floor a	rea (m²)*	Exposure Type
Conditioned*	36.8	Suburban
Unconditioned*	4.5	NatHERS climate zone
Total	41.3	56 - Mascot AMO
Garage	0.0	



Name Elias Aboutannous

Business name eCerts

Email info@ecerts.com.au
Phone +61 423475437

Accreditation No. 10205
Assessor Accrediting HERA

Organisation

Declaration of interest No Conflict of Interest

NCC Requirements

BCA provisions Volume 2
State/Territory variation Yes

National Construction Code (NCC) requirements

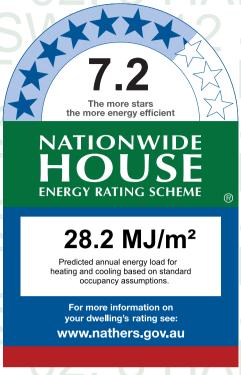
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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



Thermal performance (MJ/m²)

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	13.4	14.8
Load limits	25	18

Features determining load limits

Floor type

(lowest conditioned area) CSOG NCC climate zone 1 or 2 N Outdoor living area N Outdoor living area ceiling fan N

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-QZ429M-01.

When using either link, ensure you are visiting http://www.hero-software.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.

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:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.



Certificate check	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	ent authority/ eyor checked	Occupancy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Asse	Cons	Build	Consent a	0000
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 <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 'Ceiling type' 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 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown on the NatHERS-stamped plans?					

7.	2	Star	Rating	as	of	09	Mav	2025
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Certificate check	Approval stage		Construction 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	n the Nat	HERS as	sessmen	t)	
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	ment is no	ot conduc	cted)	
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 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. As include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.					



Additional Notes

ALL DWELLINGS:

- Shading to existing fence line and house modelled as per NatHERS technical Notes
- The side and rear fence heights of the neighbouring building are to be 1.8m where local planning requirements are unknown.
- Heights of the neighbouring building have been modelled to include all known site level changes that will impact on shading the dwelling being rated.
- Slab on ground- NIL extra insulation required
- Brick Veneer with R2.5 bulk insulation and vapour pearmeable wall wrap to external walls (garage walls NIL bulk insulation, wrap only)
- Insulation under roof material:- Anticon Blanket (R1.3)
- Windows internal curtains:- N/a

DWELLING 01 & 03:

- Insulation at CEILING level:- R6.0 bulk insulation
- Double Glazed Low-E Clear Glazing Or Glazing Equal To Or Better Than Values Given In This Report

DWELLING 02 & 04:

- Insulation at CEILING level:- R5.0 bulk insulation
- Generic Single Glazed Clear Glazing (Nathers Default Windows) Or Glazing Equal To Or Better Than Values Given In This Report

Room schedule

Room	Zone Type	Area (m²)
BED	Bedroom	10.96
ВАТН	Unconditioned	4.50
KITCHEN/LIVING	Kitchen/Living	25.84

Window and glazed door type and performance

Default* windows

Window ID	Window Description Maximum U-value*	SHGC*	SHGC substitution tolerance ranges		
		U-value*		lower limit	upper limit
ALM-001-01 A	Aluminium A SG Clear	6.70	0.57	0.54	0.60
ALM-002-01 A	Aluminium B SG Clear	6.70	0.70	0.66	0.73

Custom* windows

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

SHCC substitution



Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
ВАТН	ALM-001-01 A	W26	1000	600	Awning	90	SW	None
BED	ALM-002-01 A	W27	2100	1800	Sliding	45	NW	None
KITCHEN/LIVING	ALM-002-01 A	W24	2100	2000	Sliding	45	NE	None
KITCHEN/LIVING	ALM-002-01 A	W29	600	2700	Sliding	45	NE	None
KITCHEN/LIVING	ALM-002-01 A	W25	600	2400	Fixed	0	SE	None
KITCHEN/LIVING	ALM-002-01 A	W28	2100	2400	Sliding Door	45	NW	None

Roof window type and performance value

Default* roof windows

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

Custom* roof windows

None

None

Window Description	Maximum SHGC*	tolerance ranges	
ao.i. 2000p.i.o.i.	U-value*	lower limit upper limit	
	Window Description	Window Description Maximum U-value* SHGC*	

Roof window schedule

Location	Window	Window	Opening	Height	Width	Orient-	Outdoor	Indoor
Location	ID	no.	%	(mm)	(mm)	ation	shade	shade

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



External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
None				

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
BV-REFL-CAV	Brick Veneer Stud Wall with Reflective Sarking	0.50	Medium	2.50	Yes

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
ВАТН	BV-REFL-CAV	2450	2250	SE	409	Yes
ВАТН	BV-REFL-CAV	2450	2001	SW	645	Yes
BED	BV-REFL-CAV	2450	3652	SW	645	Yes
BED	BV-REFL-CAV	2450	3001	NW	2105	Yes
KITCHEN/LIVING	BV-REFL-CAV	2450	6954	NE	551	Yes
KITCHEN/LIVING	BV-REFL-CAV	2450	3748	SE	409	Yes
KITCHEN/LIVING	BV-REFL-CAV	2450	1099	SW	645	Yes
KITCHEN/LIVING	BV-REFL-CAV	2450	2999	NW	3731	Yes

Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
INT-PB	Internal Plasterboard Stud Wall	23.0	0.00

Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
BATH	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	4.5	N/A	0.56	Tile (10mm)
BED	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	11.0	N/A	0.56	Tile (10mm)
KITCHEN/LIVING	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	25.8	N/A	0.56	Tile (10mm)



Bulk

Ceiling type

Location	Construction	insulation (R-value)	wrap*

ВАТН	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
BED	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
KITCHEN/LIVING	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
ВАТН	1	Exhaust Fan	350	Sealed
BED	2	Downlight	150	Sealed
KITCHEN/LIVING	4	Downlight	150	Sealed
KITCHEN/LIVING	1	Exhaust Fan	350	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
KITCHEN/LIVING	1	1500

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

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)	
None					

Appliance schedule

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

Cooling system

Type Location	Minimum Fuel Type efficiency / performanc	Recommended capacity
---------------	---	----------------------



Cooling system

Type Location Fuel Type efficiency / performance Recommended capacity

No Whole of Home Data

Heating system

Type Location Fuel Type efficiency / performance Recommended capacity

No Whole of Home Data

Hot water system

Type Fuel type Water efficiency / daily load CER Zone STC [litres]

No Whole of Home Data

Pool / spa equipment

Type Fuel type efficiency / capacity

Recommended capacity

No Whole of Home Data

Onsite Renewable Energy schedule

Type Orientatation Generation Capacity [kW]

No Whole of Home Data

Battery schedule

Type Storage Capacity [kWh]

No Whole of Home Data



Explanatory Notes

About this report

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

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

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

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

Accredited assessors

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

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

are not quality assured.

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

Disclaimer

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

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

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

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

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
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.
СОР	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)

Nationwide House Energy Rating Scheme® NatHERS® Certificate No. #HR-AGC5FC-01

Generated on 09 May 2025 using Hero 4.1 (Chenath v3.23)

Property

Address Unit 03, 8 Haddon Crescent, Revesby,

NSW, 2212

Lot/DP 8/24338

NCC Class* 1a

Floor/all Floors 1 of 2 floors

Type New

Plans

Main Plan REV

Prepared by NLQS DESIGNS

Construction and environment

Assessed floor area (m²)* Exposure Type
Conditioned* 199.1 Suburban

Unconditioned* 3.3 NatHERS climate zone

Total 221.4 56 - Mascot AMO

Garage 19.0



Accredited assessor

Name Elias Aboutannous

Business name eCerts

Email info@ecerts.com.au
Phone +61 423475437

Accreditation No. 10205
Assessor Accrediting HERA

Organisation

Declaration of interest No Conflict of Interest

NCC Requirements

BCA provisions Volume 2

State/Territory variation Yes

National Construction Code (NCC) requirements

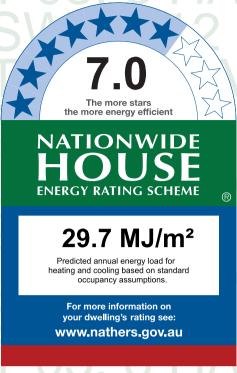
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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



Thermal performance (MJ/m²)

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	12.0	17.7
Load limits	25	18

Features determining load limits

Floor type
(lowest conditioned area) CSOG
NCC climate zone 1 or 2 N
Outdoor living area N
Outdoor living area ceiling fan N

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-AGC5FC-01.

When using either link, ensure you are visiting http://www.hero-software.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.

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:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole
of Home
performance
assessment
conducted for this
certificate.



Certificate check	Approva	stage	Construc stage	tion	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	ent authority/	Builder checked	ent authority/	Occupancy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Asse	Consent	Build	Consent	nooo
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 <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 '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 <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 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown on the NatHERS-stamped plans?					

7.0 Star	Rating	as of	09	Mav	2025
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Certificate check	Approva	l stage	Construct stage	Construction 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	n the Nat	HERS as	sessment	')	
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	cted)	
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 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.					



Additional Notes

ALL DWELLINGS:

- Shading to existing fence line and house modelled as per NatHERS technical Notes
- The side and rear fence heights of the neighbouring building are to be 1.8m where local planning requirements are unknown.
- Heights of the neighbouring building have been modelled to include all known site level changes that will impact on shading the dwelling being rated.
- Slab on ground- NIL extra insulation required
- Brick Veneer with R2.5 bulk insulation and vapour pearmeable wall wrap to external walls (garage walls NIL bulk insulation, wrap only)
- Insulation under roof material:- Anticon Blanket (R1.3)
- Windows internal curtains:- N/a

DWELLING 01 & 03:

- Insulation at CEILING level:- R6.0 bulk insulation
- Double Glazed Low-E Clear Glazing Or Glazing Equal To Or Better Than Values Given In This Report

DWELLING 02 & 04:

- Insulation at CEILING level:- R5.0 bulk insulation
- Generic Single Glazed Clear Glazing (Nathers Default Windows) Or Glazing Equal To Or Better Than Values Given In This Report

Room schedule

Room	Zone Type	Area (m²)
GARAGE	Garage	19.02
WC	Day Time	3.38
ENTRY/LIVING	Living	35.73
KITCHEN/DINING/RUMPUS	Kitchen/Living	62.75
BED 1	Bedroom	24.26
BED 2	Bedroom	11.18
ENS	Night Time	8.12
ENS	Night Time	5.75
ВАТН	Day Time	6.23
BED 3	Bedroom	12.12
BED 4	Bedroom	14.09
HALL	Day Time	20.09
LAUNDRY	Unconditioned	3.34



Room schedule

Room	Zone Type	Area (m²)
WIP	Day Time	4.46

Window and glazed door type and performance

Default* windows

Window ID	D Window Description Waxin U-valu	Maximum SHGC* to	IGC substitution lerance ranges
		U-value* lo	wer limit upper limit
None			

Custom* windows

Window ID	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges		
	•	U-value*		lower limit	upper limit	
WID-021-003	Paragon Fixed Window - Double Glazed	3.15	0.60	0.57	0.63	
WID-101-002	Horizon Awning Window	3.35	0.49	0.46	0.51	
WID-102-021	Horizon Sliding Window	3.31	0.51	0.49	0.54	
WID-104-020	Horizon Sliding Door	2.94	0.55	0.52	0.58	
WID-122-021	Paragon Entry Door	3.39	0.43	0.41	0.45	

Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
BED 1	WID-104-020	W21	2400	3000	Sliding Door	45	SE	None
BED 1	WID-021-003	W51	900	5000	Fixed	0	SE	None
BED 1	WID-021-003	W52	900	9000	Fixed	0	NE	None
BED 2	WID-102-021	W49	700	3650	Sliding	45	SW	None
BED 2	WID-102-021	W48	1400	1500	Sliding	45	NW	None
BED 3	WID-102-021	W43	700	2400	Sliding	30	SW	None
BED 3	WID-102-021	W44	1400	1500	Sliding	45	SE	None
BED 4	WID-102-021	W41	700	3000	Sliding	30	NW	None
BED 4	WID-102-021	W42	700	3000	Sliding	30	SW	None
ENS	WID-101-002	W40	700	1200	Awning	45	NW	None



Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
ENTRY/LIVING	WID-122-021	W38	2400	1000	Hinged Door	90	SW	None
ENTRY/LIVING	WID-122-021	W30 (HINGED) GROUND FLOOR	2700	950	Hinged Door	90	SE	None
ENTRY/LIVING	WID-021-003	W30 (FIXED) GROUND FLOOR	2700	450	Fixed	0	SE	None
ENTRY/LIVING	WID-104-020	W37	2400	3000	Sliding Door	60	NW	None
GARAGE	WID-021-003	W39	700	3000	Fixed	0	SW	None
HALL	WID-021-003	W45	2400	800	Fixed	0	SW	None
HALL	WID-021-003	W46	2400	800	Fixed	0	SW	None
HALL	WID-021-003	W47	2400	800	Fixed	0	SW	None
KITCHEN/DINING /RUMPUS	WID-104-020	W35	2400	2000	Sliding Door	45	SE	None
KITCHEN/DINING /RUMPUS	WID-104-020	W36	2400	5100	Sliding Door	60	SW	None
KITCHEN/DINING /RUMPUS	WID-104-020	W31	2400	4000	Sliding Door	70	NW	None
KITCHEN/DINING /RUMPUS	WID-102-021	W34	700	2900	Sliding	30	WSW	None
LAUNDRY	WID-122-021	W32	2400	1000	Hinged Door	90	NW	None
ENTRY/LIVING	WID-021-003	W30 (FIXED) FIRST FLOOR	2600	1399	Fixed	0	SE	None

Roof window type and performance value

Default* roof windows

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

Custom* roof windows

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



Roof window schedule

Location	Window	Window	Opening	Height	Width	Orient-	Outdoor	Indoor
Location	ID	no.	%	(mm)	(mm)	ation	shade	shade

None

Skylight type and performance

Skylight ID	Skylight description
GEN-04-005a	Double-glazed Opal Skylight

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m²)	Orient- ation	Outdoor shade	Diffuser	Shaft Reflectance
BATH	GEN-04-005a	SKYLT 05	600	0.55	SW	None	Yes	80
HALL	GEN-04-005a	SKYLT 06	600	3.63	W	None	Yes	80
ENTRY/LIVING	GEN-04-005a	SKYLT 04	600	3.52	NW	None	Yes	80

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
GARAGE	2400	2500	90	SE

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
BV-REFL-CAV-A	Brick Veneer Stud Wall with Reflective Sarking	0.50	Medium	0.00	Yes
BV-REFL-CAV-B	Brick Veneer Stud Wall with Reflective Sarking	0.50	Medium	2.50	Yes

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
BED 1	BV-REFL-CAV-B	2600	4590	SE	2541	No
BED 1	BV-REFL-CAV-B	2600	4951	SW	393	Yes
BED 1	BV-REFL-CAV-B	1000	6092	SE		No
BED 1	BV-REFL-CAV-B	1000	9025	NE		Yes
BED 2	BV-REFL-CAV-B	2600	3650	SW	393	Yes



External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
BED 2	BV-REFL-CAV-B	3600	3062	NW		Yes
BED 3	BV-REFL-CAV-B	2600	3651	SW		No
BED 3	BV-REFL-CAV-B	2600	3320	SE		Yes
BED 4	BV-REFL-CAV-B	2600	4421	NW	2207	No
BED 4	BV-REFL-CAV-B	2600	3000	SW		No
ENS	BV-REFL-CAV-B	2600	1830	NW	2207	No
ENTRY/LIVING	BV-REFL-CAV-B	2700	4515	SW		Yes
ENTRY/LIVING	BV-REFL-CAV-B	2700	2491	SE	2522	Yes
ENTRY/LIVING	BV-REFL-CAV-B	2700	3037	NW		Yes
GARAGE	BV-REFL-CAV-A	2785	6001	SW		Yes
GARAGE	BV-REFL-CAV-A	2785	3601	SE	604	No
GARAGE	BV-REFL-CAV-A	2785	1685	NE		Yes
HALL	BV-REFL-CAV-B	2600	5415	SW		Yes
KITCHEN/DINING /RUMPUS	BV-REFL-CAV-B	2700	3295	SE		Yes
KITCHEN/DINING /RUMPUS	BV-REFL-CAV-B	2700	5189	SW		Yes
KITCHEN/DINING /RUMPUS	BV-REFL-CAV-B	2700	4014	NW	3327	Yes
KITCHEN/DINING /RUMPUS	BV-REFL-CAV-B	2700	5040	WSW		Yes
LAUNDRY	BV-REFL-CAV-B	2700	1489	SW		Yes
LAUNDRY	BV-REFL-CAV-B	2700	2240	NW	3325	Yes
ENTRY/LIVING	BV-REFL-CAV-B	2600	1399	SE	2540	No
WIP	BV-REFL-CAV-B	2700	1992	SW		Yes

Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
INT-PB	Internal Plasterboard Stud Wall	18.5	2.50
INT-PB	Internal Plasterboard Stud Wall	115.9	0.00



Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
Shaft/Party Wall	Shaft/Party Wall	114.6	2.50

Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
ВАТН	TIMB-002: Suspended Timber Floor - Lined Below	6.2	N/A	0.15	Tile (10mm)
BED 1	TIMB-002: Suspended Timber Floor - Lined Below	24.2	N/A	0.15	Tile (10mm)
BED 2	TIMB-002: Suspended Timber Floor - Lined Below	11.2	N/A	0.15	Tile (10mm)
BED 3	TIMB-002: Suspended Timber Floor - Lined Below	12.1	N/A	0.15	Tile (10mm)
BED 4	TIMB-002: Suspended Timber Floor - Lined Below	14.1	N/A	0.15	Tile (10mm)
ENS	TIMB-002: Suspended Timber Floor - Lined Below	13.8	N/A	0.15	Tile (10mm)
ENTRY/LIVING	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	35.7	N/A	0.56	Tile (10mm)
GARAGE	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	19.0	N/A	0.56	Exposed
HALL	TIMB-002: Suspended Timber Floor - Lined Below	20.1	N/A	0.15	Tile (10mm)
KITCHEN/DINING /RUMPUS	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	62.7	N/A	0.56	Tile (10mm)
LAUNDRY	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	3.3	N/A	0.56	Tile (10mm)
WC	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	3.4	N/A	0.56	Tile (10mm)
WIP	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	4.5	N/A	0.56	Tile (10mm)

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
ВАТН	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
BED 1	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
BED 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
BED 3	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
BED 4	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes



Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
ENS	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
ENTRY/LIVING	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
GARAGE	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
HALL	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
KITCHEN/DINING/RUMPUS	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
LAUNDRY	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
WIP	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	6.00	Yes

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
BATH	1	Exhaust Fan	350	Sealed
BED 1	4	Downlight	150	Sealed
BED 2	2	Downlight	150	Sealed
BED 3	2	Downlight	150	Sealed
BED 4	2	Downlight	150	Sealed
ENS	2	Exhaust Fan	350	Sealed
ENTRY/LIVING	6	Downlight	150	Sealed
HALL	3	Downlight	150	Sealed
KITCHEN/DINING/RUMPUS	1	Downlight	150	Sealed
KITCHEN/DINING/RUMPUS	1	Exhaust Fan	350	Sealed
LAUNDRY	1	Exhaust Fan	350	Sealed
VOID	1	Downlight	150	Sealed
WC	1	Exhaust Fan	350	Sealed
WIP	1	Downlight	150	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
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Ceiling fans

Location	Quantity	Diameter (mm)
BED 1	1	2100
BED 2	1	1800
BED 3	1	1800
BED 4	1	1800
ENTRY/LIVING	1	2100
HALL	1	1500
KITCHEN/DINING/RUMPUS	2	2100

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

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)	
None					

Appliance schedule

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

Cooling system

Туре	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Home Data				
Heating system			Minimum	Dagamanandad

Туре	Location	Fuel Type efficiency / performance	Recommended capacity
No Whole of Ho	nme Data		

No Whole of Home Data

Hot water system

Туре	Fuel type	Hot Water CER Zone	Minimum efficiency / STC	Assessed daily load [litres]
		OLIV ZOIIC	010	[maco]

No Whole of Home Data

#HR-AGC5FC-01 NatHERS Certificate

7.0 Star Rating as of 09 May 2025



Pool / spa equipment

Type Fuel type efficiency / capacity

Performance

Minimum
Recommended
capacity

No Whole of Home Data

Onsite Renewable Energy schedule

Type Orientatation Generation Capacity [kW]

No Whole of Home Data

Battery schedule

Type Storage Capacity [kWh]

No Whole of Home Data



Explanatory Notes

About this report

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

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

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

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

Accredited assessors

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

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

are not quality assured.

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

Disclaimer

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

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

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

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

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
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)

Nationwide House Energy Rating Scheme® NatHERS® Certificate No. #HR-NBYZUI-01

Generated on 09 May 2025 using Hero 4.1 (Chenath v3.23)

Property

Address Unit 04, 8 Haddon Crescent, Revesby,

NSW, 2212

Lot/DP 8/24338

NCC Class* 1a

Floor/all Floors 1 of 1 floors

Type New

Plans

Main Plan REV

Prepared by NLQS DESIGNS

Construction and environment

Assessed floor a	rea (m²)*	Exposure Type
Conditioned*	36.2	Suburban
Unconditioned*	3.9	NatHERS climate zone
Total	40.1	56 - Mascot AMO
Garage	0.0	



Accredited assessor

Name Elias Aboutannous

Business name eCerts

Email info@ecerts.com.au

Phone +61 423475437

Accreditation No. 10205
Assessor Accrediting HERA

Organisation

Declaration of interest No Conflict of Interest

NCC Requirements

BCA provisions Volume 2

State/Territory variation Yes

National Construction Code (NCC) requirements

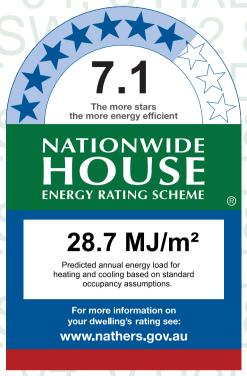
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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



Thermal performance (MJ/m²)

Limits taken from ABCB Standard 2022

	Heatir	ng	Cooli	ng
Modelled	10.8		17.9	
Load limits	25		18	

Features determining load limits

Floor type

(lowest conditioned area) CSOG NCC climate zone 1 or 2 N Outdoor living area N Outdoor living area ceiling fan N

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-NBYZUI-01.

When using either link, ensure you are visiting http://www.hero-software.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.

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:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole
of Home
performance
assessment
conducted for this
certificate.

HÖÜSE

Certificate check	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. Note: The boxes indicate when and who should check each item.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
It is not mandatory to complete this checklist.	~	೮ ಜ	<u> </u>		Ŏ
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 <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 'Ceiling type' 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 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown on the NatHERS-stamped plans?					

7.1	Star	Rating	as of	09	Mav	2025
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Certificate check	Approva	Approval stage		Construction stage		
Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other	
Additional NCC requirements for thermal performance (not included i	n the Nat	HERS ass	sessment	t)		
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	cted)		
Appliances						
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
Additional NCC Requirements for Services (not included in the NatHERS assessment)						
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.	dditional re and any st	quirements ate or territ	that must ory variation	also be sat	isfied ICC	



Additional Notes

ALL DWELLINGS:

- Shading to existing fence line and house modelled as per NatHERS technical Notes
- The side and rear fence heights of the neighbouring building are to be 1.8m where local planning requirements are unknown.
- Heights of the neighbouring building have been modelled to include all known site level changes that will impact on shading the dwelling being rated.
- Slab on ground- NIL extra insulation required
- Brick Veneer with R2.5 bulk insulation and vapour pearmeable wall wrap to external walls (garage walls NIL bulk insulation, wrap only)
- Insulation under roof material:- Anticon Blanket (R1.3)
- Windows internal curtains:- N/a

DWELLING 01 & 03:

- Insulation at CEILING level:- R6.0 bulk insulation
- Double Glazed Low-E Clear Glazing Or Glazing Equal To Or Better Than Values Given In This Report

DWELLING 02 & 04:

- Insulation at CEILING level:- R5.0 bulk insulation
- Generic Single Glazed Clear Glazing (Nathers Default Windows) Or Glazing Equal To Or Better Than Values Given In This Report

Room schedule

Room	Zone Type	Area (m²)
BED	Bedroom	10.53
ВАТН	Unconditioned	3.91
KITCHEN/LIVING	Kitchen/Living	25.69

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
ALM-001-01 A	Aluminium A SG Clear	6.70	0.57	0.54	0.60
ALM-002-01 A	Aluminium B SG Clear	6.70	0.70	0.66	0.73

Custom* windows

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

SHCC substitution



Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
ВАТН	ALM-001-01 A	W59	1000	600	Awning	90	SW	None
BED	ALM-002-01 A	W54	2100	1800	Sliding	45	NW	None
KITCHEN/LIVING	ALM-002-01 A	W57	1500	1800	Sliding	45	NE	None
KITCHEN/LIVING	ALM-002-01 A	W56	600	2700	Sliding	45	NE	None
KITCHEN/LIVING	ALM-002-01 A	W58	600	1600	Fixed	0	SE	None
KITCHEN/LIVING	ALM-001-01 A	W53	2100	1000	Hinged Door	90	SW	None
KITCHEN/LIVING	ALM-002-01 A	W55	2100	2400	Sliding Door	45	NW	None

Roof window type and performance value

Default* roof windows

Window ID	Window Description	Maximum SHGC*	SHGC substitution tolerance ranges		
	. U-va	U-value*	lower limit upper limit		

None

Custom* roof windows

Window ID	Window Description	Maximum SHGC	SHGC substitution tolerance ranges		
	U-value*	U-value*	lower limit upper limit		

None

Roof window schedule

Location	Window	Window	Opening	Height	Width	Orient-	Outdoor	Indoor
	ID	no.	%	(mm)	(mm)	ation	shade	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

None

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
BV-REFL-CAV	Brick Veneer Stud Wall with Reflective Sarking	0.50	Medium	2.50	Yes

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
ВАТН	BV-REFL-CAV	2450	1956	SE	501	Yes
ВАТН	BV-REFL-CAV	2450	2001	SW	467	Yes
BED	BV-REFL-CAV	2450	3904	SW	471	Yes
BED	BV-REFL-CAV	2450	2706	NW	665	Yes
KITCHEN/LIVING	BV-REFL-CAV	2450	7108	NE	550	Yes
KITCHEN/LIVING	BV-REFL-CAV	2450	3748	SE	501	Yes
KITCHEN/LIVING	BV-REFL-CAV	2450	1008	SW	471	Yes
KITCHEN/LIVING	BV-REFL-CAV	2450	2998	NW	2140	Yes

Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
INT-PB	Internal Plasterboard Stud Wall	22.2	0.00

Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
ВАТН	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	3.9	N/A	0.56	Tile (10mm)
BED	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	10.5	N/A	0.56	Tile (10mm)
KITCHEN/LIVING	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	25.7	N/A	0.56	Tile (10mm)



Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
ватн	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
BED	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes
KITCHEN/LIVING	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	5.00	Yes

7.1 Star Rating as of 09 May 2025

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
BATH	1	Exhaust Fan	350	Sealed
BED	2	Downlight	150	Sealed
KITCHEN/LIVING	4	Downlight	150	Sealed
KITCHEN/LIVING	1	Exhaust Fan	350	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
KITCHEN/LIVING	1	1500

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

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)	
None					

Appliance schedule

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

Cooling system

Туре	Location	Fuel Type e	/linimum efficiency / performance	Recommended capacity
No Whole of Ho	me Data			



Heating system

Type Location Fuel Type efficiency / performance Recommended capacity

No Whole of Home Data

Hot water system

Type Fuel type Water efficiency / daily load CER Zone STC [litres]

No Whole of Home Data

Pool / spa equipment

Type Fuel type End type Approximately Property Performance Recommended Capacity

No Whole of Home Data

Onsite Renewable Energy schedule

Type Orientatation Generation Capacity [kW]

No Whole of Home Data

Battery schedule

Type Storage Capacity [kWh]

No Whole of Home Data



Explanatory Notes

About this report

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

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

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

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

Accredited assessors

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

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

are not quality assured.

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

Disclaimer

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

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

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

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

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions. Australian Expectation Policy Council		
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 ti 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 Provisio 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 vegetal 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 Sm 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 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)		