Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011817053

Generated on 31 Mar 2025 using BERS Pro v5.2.4 (3.23)

Property

Address

Lot/DP NCC class* Floor/all Floors Type

7A Geoffrey Street, CROWDY HEAD , NSW , 2427 Lot 121 DP 1233169 1a G of 3 floors New Home

Plans

Main plan Prepared by Job No: 039-MCD. Date: 11/03/25 Drawn: J.A.J. Jake Johnston Building Design

Construction and environment

Assessed floor area [m2]* Conditioned* 170.9 Unconditioned* 50.9 Total 254.2 Garage 32.4

Exposure type Suburban NatHERS climate zone 15 Williamtown



Accredited assessor

Daniel Lowe Name Business name Enewergy Thermal Performance Email daniel.lowe@enewergy.com.au Phone 0435 054 933 Accreditation No. HERA10030 Assessor Accrediting Organisation HFRA **Declaration of interest**

Declaration completed: no conflicts

NCC Requirements

NCC provisions Strate/Territory variation Volume Two

Yes

National Construction Code (NCC) requirements

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

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

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

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

Thermal performance Star rating

The more stars the more energy efficient

NATIONWIDE

50.4 MJ/m²

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	25.3	25.1
Load limits	N/A	N/A

Features determining load limits

Floor Type (lowest conditioned area)	csog
NCC climate zone 1 or 2	No
Outdoor living area	No
Outdoor living area ceiling fan	No

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate? p=XxCDsrQTt When using either link, ensure you are visiting hstar.com.au



About the ratings

Thermal performance rating

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

Whole of Home performance rating

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

Heating & Cooling Load Limits

Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the *ABCB Standard 2022: NatHERS heating and cooling load limits* for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

Setting Options:

Floor Type:

CSOG - Concrete Slab on Ground

SF – Suspended Floor (or a mixture of CSOG and SF) NA – Not Applicable

NCC Climate Zone 1 or 2:

Yes

No

NA – Not Applicable

Outdoor Living Area:

Yes No

NA – Not Applicable

Outdoor Living Area Ceiling Fan:

Yes No

NA – Not Applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

Energy use



Greenhouse gas emissions



Cost



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	checked	Consent Authority Surveyor checked	Occupancy/Other
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Assesso	Consent Surveyo	Builder checked	Consent Surveyo	Occupar
Genuine certificate check			1		
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check					
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?					
Floor					
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Floor type' table on this certificate?					
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate?					
Roof					
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown					

HOUSE	

· · · · · · · · · · · · · · · · · · ·					HOUSE	
	Approva	al Stage	Construction Stage			
Certificate check	ecked	hority/ scked	ked	hority scked	Other	
Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other	
Additional NCC requirements for thermal performance (not include	uded in t	he NatHE	ERS asse	ssment)		
Thermal bridging						
Does the dwelling meet the NCC requirement for thermal bridging?						
Insulation installation method						
Has the insulation been installed according to the NCC requirements?						
Building sealing						
Does the dwelling meet the NCC requirements for Building Sealing?						
Whole of Home performance check (not applicable if a Whole of Hom	e perform	ance asse	ssment is i	not conduc	ted)	
Appliances						
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?						
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
Does the hot water system type and efficiency/performance shown on the NatHERS- stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?						
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?						
Additional NCC Requirements for Services (not included in the	NatHERS	S assessi	ment)			
Does the lighting meet the artificial lighting requirements specified in the NCC?						
Does the hot water system meet the additional requirements specified in the NCC?						
Provisional values* check						
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?						
Other NCC requirements						
Note: This Certificate only covers the energy efficiency requirements in the NCC. Add but are not limited to: condensation, structural and fire safety requirements and any st requirements.						

Additional notes

*1st floor windows to have safety screens where applicable to allow full openability %

*1st floor walls to roofspace includes R value from reflective foil under roof

R2.7 to walls, Sarking + R0.6 Downward reflective Total R value of R3.3



Room schedule

Room	Zone Type	Area [m²]
BED 3	Bedroom	20.2
RUMPUS	Living	38.81
LDRY	Unconditioned	13.19
WC	Unconditioned	1.65
GARAGE	Garage	32.39
KIT/LIV/DINING	Kitchen/Living	68.89
BED 2	Bedroom	13.95
BATH	Unconditioned	6.23
BED 1	Bedroom	25.45
ENS	Nighttime	6.58
LOFT	Unconditioned	12.44
STORAGE	Unconditioned	17.38
VOID	Unconditioned	72.31

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
window iD	Description	U-value*	3660	SHGC lower limit	SHGC upper limit	
No Data Available						

Custom windows*

Window ID	Window	Maximum	SHCC*	Substitution tolerance ranges			
WINDOW ID	Description	U-value* SHGC*		SHGC lower limit	SHGC upper limit		
REY-027-003	Aluminium Sliding Door DG 6PH08(60)/24Ar/6Clr	1.8	0.27	0.26	0.29		
BRZ-006-008	Aluminium Louvre Window SG 6LE	4.3	0.48	0.45	0.50		
CAP-030-012	Aluminium Sliding Window SG 6ET	4.6	0.60	0.57	0.63		
CAP-523-006	Thermally Broken Aluminium Sliding Window DG AGG Plus WTransLam 6.38/12/4	2.2	0.36	0.34	0.37		
CAP-148-012	Thermally Broken Aluminium Fixed Window DG SOLOS OE Gy 6/12Ar/6	1.8	0.30	0.28	0.31		
CAP-520-022	Thermally Broken Aluminium Double Hung Window DG AGG PRIME Gy 6/12/4	2.5	0.30	0.28	0.31		



Custom windows*

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

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
BED 3	REY-027-003-001	W06	2100	2410	Sliding	45	W	No
BED 3	REY-027-003-001	W05	2100	3600	Sliding	60	S	No
RUMPUS	REY-027-003-001	W01	2100	2100	Sliding	45	Ν	No
RUMPUS	REY-027-003-001	W07	2100	4810	Sliding	45	W	No
LDRY	REY-027-003-001	W04	2100	1810	Sliding	45	S	No
WC	BRZ-006-008-001	W03	1000	900	Louvre	90	E	No
GARAGE	CAP-030-012-001	W02	1027	2410	Sliding	45	E	No
KIT/LIV/DINING	CAP-523-006-001	W20	1200	2170	Sliding	45	W	No
KIT/LIV/DINING	CAP-148-012-001	W19	600	2400	Fixed	00	W	No
KIT/LIV/DINING	REY-027-003-001	W08	2100	5400	Sliding	60	Ν	No
KIT/LIV/DINING	REY-027-003-001	W26	2100	4400	Sliding	60	S	No
KIT/LIV/DINING	REY-027-003-001	n/a	2100	4400	Sliding	60	W	No
BED 2	CAP-520-022-001	W16	1500	900	Double Hung	45	W	No
BED 2	CAP-523-006-001	W14	600	2400	Sliding	45	E	No
BED 2	REY-027-003-001	W15	2100	3100	Sliding	60	S	No
BATH	BRZ-006-008-001	W28	1500	900	Louvre	90	E	No
BED 1	REY-027-003-001	n/a	2100	3600	Sliding	60	Ν	No
BED 1	CAP-148-012-001	W13	1500	700	Fixed	00	E	No
BED 1	CAP-148-012-001	W27	1500	700	Fixed	00	E	No
ENS	BRZ-006-008-001	W10	1500	700	Louvre	90	E	No
LOFT	CAP-148-012-001	W29	1950	1800	Fixed	00	W	No
LOFT	BRZ-006-008-001	W31	1800	900	Louvre	90	S	No
LOFT	BRZ-006-008-001	W33	1800	900	Louvre	90	S	No
LOFT	CAP-148-012-001	W32	1800	2600	Fixed	00	S	No
STORAGE	BRZ-006-008-001	W24 LVR 1	1300	900	Louvre	90	E	No
STORAGE	BRZ-006-008-001	W24 LVR 2	1800	900	Louvre	90	E	No

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Location	Window ID	Window no.	Height [mm]	Width Window [mm] type	Opening %	Orientation	Window shading device*
STORAGE	CAP-148-012-001	1 W30	1800	2100 Fixed	00	S	No

Roof window* type and performance value

Default roof windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	3600	SHGC lower limit	SHGC upper limit	
No Data Availa	able					

Custom roof windows*

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
Window ID Description		U-value*	3660	SHGC lower limit	SHGC upper limit
No Data Available					

Roof window* schedule

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

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m ²] Orientation	Outdoor shade	Diffuser
No Data Available						

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
RUMPUS	2400	1200	90	Ν	
GARAGE	2100	3900	90	Ν	



External wall type

Wall ID	Wall type	Solar Wall sha absorptance [colour]	de Bulk insulation [R-value]	Reflective wall wrap*
EW-1	Fibro Timber Stud Frame Panel Direct Fix	0.30	Bulk Insulation R2.7	No
EW-2	Single Skin Panel Timber Frame	0.33	Bulk Insulation R3.3	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
BED 3	EW-1	2440	3995	W	1250	No
BED 3	EW-1	2440	5345	S	2833	No
RUMPUS	EW-1	2440	4595	Ν	5000	No
RUMPUS	EW-1	2440	8295	W	1250	No
LDRY	EW-1	2440	3445	E	0	No
LDRY	EW-1	2440	2945	S	2433	No
WC	EW-1	2440	1790	E	0	No
GARAGE	EW-1	2440	4695	Ν	5000	No
GARAGE	EW-1	2440	7050	E	0	No
GARAGE	EW-1	2440	1000	S	0	No
KIT/LIV/DINING	EW-1	2440	7450	W	900	No
KIT/LIV/DINING	EW-1	2440	5895	Ν	2650	No
KIT/LIV/DINING	EW-1	2440	4645	S	2150	No
KIT/LIV/DINING	EW-1	2440	4850	W	2150	No
KIT/LIV/DINING	EW-1	2440	1250	S	7000	No
BED 2	EW-1	2440	1300	W	6800	No
BED 2	EW-1	2440	3895	E	600	No
BED 2	EW-1	2440	3650	S	850	No
BATH	EW-1	2440	2640	E	600	No
BED 1	EW-1	2440	4645	Ν	2650	No
BED 1	EW-1	2440	5095	E	600	No
ENS	EW-1	2440	1945	E	600	No
ENS	EW-1	2440	1000	S	7400	No
LOFT	EW-1	2200	2145	W	900	No

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Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
LOFT	EW-1	2431	5895	S	600	No
STORAGE	EW-2	1750	3645	Ν	12300	No
STORAGE	EW-1	2100	4800	E	600	No
STORAGE	EW-1	2431	3645	S	600	No
VOID	EW-1	670	5900	Ν	2650	No
VOID	EW-2	1400	9650	E	5250	No
VOID	EW-1	1600	12295	W	900	No

Internal wall type

Wall ID	Wall type	Area [m ²] E	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	71.91	No insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	59.90 E	Bulk Insulation, No Air Gap R2.7

Floor type

Location	Construction	Area [m ²]	Sub-floor ventilation	Added insulation [R-value]	Covering
BED 3	Concrete Slab on Ground 100mm	20.20	None	Bulk Insulation in Contact with Floor R2	Carpet+Rubber Underlay 18mm
RUMPUS	Concrete Slab on Ground 100mm	38.81	None	Bulk Insulation in Contact with Floor R2	Vinyl 3mm
LDRY	Concrete Slab on Ground 100mm	13.19	None	Bulk Insulation in Contact with Floor R2	Ceramic Tiles 8mm
WC	Concrete Slab on Ground 100mm	1.65	None	Bulk Insulation in Contact with Floor R2	Ceramic Tiles 8mm
GARAGE	Concrete Slab on Ground 100mm	32.39	None	Bulk Insulation in Contact with Floor R2	Bare



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
KIT/LIV/DINING / BED 3	Timber Framed Timber Above Plasterboard 19mm	15.31		No Insulation	Vinyl 3mm
KIT/LIV/DINING / RUMPUS	Timber Framed Timber Above Plasterboard 19mm	36.08		No Insulation	Vinyl 3mm
KIT/LIV/DINING / LDRY	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Vinyl 3mm
KIT/LIV/DINING	Suspended Floor Timber Frame 19mm	8.78	Totally Open	Bulk Insulation in Contact with Floor R3	Vinyl 3mm
BED 2 / BED 3	Timber Framed Timber Above Plasterboard 19mm	1.53		No Insulation	Carpet+Rubber Underlay 18mm
BED 2 / LDRY	Timber Framed Timber Above Plasterboard 19mm	7.38		No Insulation	Carpet+Rubber Underlay 18mm
BED 2	Suspended Floor Timber Frame 19mm	4.46	Totally Open	Bulk Insulation in Contact with Floor R3	Carpet+Rubber Underlay 18mm
BATH / LDRY	Timber Framed Timber Above Plasterboard 19mm	4.37		No Insulation	Ceramic Tiles 8mm
BATH / WC	Timber Framed Timber Above Plasterboard 19mm	1.27		No Insulation	Ceramic Tiles 8mm
BED 1 / GARAGE	Timber Framed Timber Above Plasterboard 19mm	25.45		Bulk Insulation R3	Carpet+Rubber Underlay 18mm
ENS / GARAGE	Timber Framed Timber Above Plasterboard 19mm	6.57		Bulk Insulation R3	Ceramic Tiles 8mm
LOFT	Suspended Floor Timber Frame 19mm	12.44	Totally Open	Bulk Insulation in Contact with Floor R3	Vinyl 3mm
STORAGE / BED 2	Timber Framed Timber Above Plasterboard 19mm	14.09		No Insulation	Vinyl 3mm
STORAGE	Suspended Floor Timber Frame 19mm	2.96	Totally Open	Bulk Insulation in Contact with Floor R3	Vinyl 3mm
VOID / KIT/LIV/DINING	Timber Framed Timber Above Plasterboard 19mm	0.00		No Insulation	Vinyl 3mm



Location	Construction	Area [m²]	Sub-floor	Added nsulation Covering [R-value]
VOID	Suspended Floor Timber Frame 19mm	5.81	Totally (Open	Bulk Insulation in Contact Vinyl 3mm with Floor R3

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
BED 3	Timber Framed Timber Above Plasterboard	No Insulation	
RUMPUS	Timber Framed Timber Above Plasterboard	No Insulation	
LDRY	Timber Framed Timber Above Plasterboard	No Insulation	
WC	Timber Framed Timber Above Plasterboard	No Insulation	
GARAGE	Timber Framed Timber Above Plasterboard	Bulk Insulation R3	
KIT/LIV/DINING	Plasterboard on Timber	Bulk Insulation R6	
KIT/LIV/DINING	Timber Framed Timber Above Plasterboard	No Insulation	
BED 2	Timber Framed Timber Above Plasterboard	No Insulation	
BATH	Plasterboard on Timber	Bulk Insulation R6	
BED 1	Plasterboard on Timber	Bulk Insulation R6	
ENS	Plasterboard on Timber	Bulk Insulation R6	
LOFT	Plasterboard on Timber	Bulk Insulation R4	
STORAGE	Plasterboard on Timber	Bulk Insulation R4	
VOID	Plasterboard on Timber	Bulk Insulation R4	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
BED 3	4	Downlights - LED	0	Sealed
RUMPUS	8	Downlights - LED	0	Sealed
LDRY	3	Downlights - LED	0	Sealed
LDRY	1	Exhaust Fans	250	Sealed
WC	1	Downlights - LED	0	Sealed
BED 2	3	Downlights - LED	0	Sealed
BATH	1	Downlights - LED	0	Sealed
BATH	1	Exhaust Fans	250	Sealed

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Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
BED 1	5	Downlights - LED	0	Sealed
ENS	2	Downlights - LED	0	Sealed
ENS	1	Exhaust Fans	250	Sealed
LOFT	2	Downlights - LED	0	Sealed
STORAGE	4	Downlights - LED	0	Sealed
VOID	16	Downlights - LED	0	Sealed
VOID	1	Exhaust Fans	200	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
BED 3	1	1200
RUMPUS	2	1400
KIT/LIV/DINING	3	1400
BED 2	1	1200
BED 1	1	1200

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Corrugated Iron Timber Frame	Foil, Gap Above, Reflective Side Down, Anti-glare Up	0.44	Medium
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.30	Light

Thermal bridging schedule for steel frame elements

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

Appliance schedule

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

Note: A flat assumption of 5W/m² is used for lighting, therefore lighting is not included in the appliance schedule.

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Cooling system							
Appliance/ system type	Loc	ation	Fuel type	eff	nimum iciency/ ormance		mended acity
No Data Available				•			
Heating system							
Appliance/ system type	Loc	ation	Fuel type	eff	nimum iciency/ ormance		mended acity
No Data Available							
Hot water system							
		Hot Water	Minimum efficiency	Zone 3		ibstitution e ranges	Assessed daily load
Appliance/ system type	Fuel type			STC -			
Appliance/ system type No Data Available	Fuel type	CER Zone	/STC	510	lower limit	upper limit	[litres]
	Fuel type		/STC	510	lower limit	upper limit	[litres]
No Data Available	Fuel type			Minimu efficienc performa	m :y/	upper limit Recomm capac	ended

System Type Orientation System Size Or Generation Capacity No Data Available View Size Or Generation Capacity View Size Or Generation Capacity

Battery Schedule

System Type	Size [Battery Storage Capacity]	
No Data Available		



Explanatory notes

About this report

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

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

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

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

Accredited assessors

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

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

are not quality assured.

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

Disclaimer

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

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

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

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

Glossary

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