

Nationwide House Energy Rating Scheme®

NatHERS® Certificate No. 0013040498-01

Generated on 29 May 2026 using BERS Pro v5.2.6 (3.23)

Property

Address Unit MD, 30C Simmat Avenue,
Condell Park , NSW , 2200

Lot/DP Lot 3 DP 576906

NCC class* 1a

Floor/all Floors G of 2 floors

Type New Home

Plans

Main plan Pamungkas 1227 PAM Main Dwelling

Prepared by SS

Construction and environment

Assessed floor area [m²]*	Exposure type
Conditioned* 261.3	Suburban
Unconditioned* 0.0	
Total 295.3	NatHERS climate zone
Garage 34.0	56 Mascot (Sydney Airport)



Accredited assessor

Name Ian Fry

Business name Frys Energywise

Email comply@frysenergywise.com.au

Phone 02 9899 2825

Accreditation No. DMN/12/1441

Assessor Accrediting Organisation
Design Matters National

Declaration of interest Declaration completed: no conflicts

NCC Requirements

NCC provisions Volume Two

State/Territory variation Yes

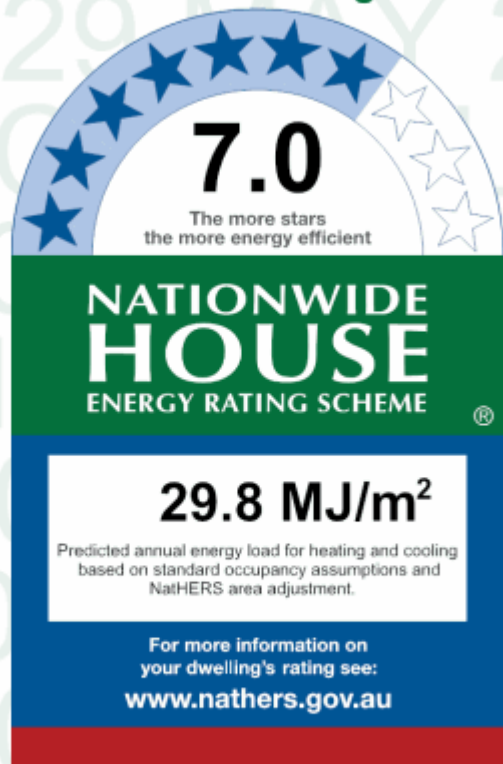
National Construction Code (NCC) requirements

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 J3D3 and J3D15 of NCC Volume One.

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
Area adjustment included

	Heating	Cooling
Modelled	15.0	14.8
Load limits	N/A	N/A

Features determining load limits

	CSOG
Floor Type (lowest conditioned area)	No
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=YfevUJwEU. 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, cooking, plug-in loads 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 *ABC Standard 2025: 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

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

The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.

Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.

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



Certificate check

Continued

	Approval Stage		Construction Stage		
	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	

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

Thermal bridging

Does the dwelling meet the NCC requirement for thermal bridging?

☐ ☐ ☐ ☐

Insulation installation method

Has the insulation been installed according to the NCC requirements?

☐ ☐ ☐

Building sealing

Does the dwelling meet the NCC requirements for Building Sealing?

☐ ☐ ☐ ☐

Whole of Home performance check (not applicable if a Whole of Home performance assessment is not conducted)

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. Additional requirements that must also be satisfied include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.

Additional notes

Where not noted on plans, default selections to floor coverings and external colours have

been used in this assessment, as noted in the NatHERS Technical Notes. Alternative

selections past this point can be made to floor coverings and external colours, without

requiring an amended certificate

Room schedule

Room	Zone Type	Area [m ²]
Garage	Garage	33.97
Butlers/Laundry	Daytime	8.04
Kitchen/Family	Kitchen/Living	62.84
Home Theatre	Living	16.32
G Ensuite	Nighttime	7.64
WIR	Nighttime	4.27
Guest	Bedroom	15.3
Entry	Daytime	21.93
WC	Daytime	2.2
Bed 1 WIR	Nighttime	10.62
Bed 1	Bedroom	16.75
Void Sitting	Unconditioned	12.37
Rumpus	Living	30.08
Bed 2	Bedroom	14.71
Bed 3	Bedroom	14.6
Void Entry	Unconditioned	3.27
Bed 4	Bedroom	13.39
Ensuite 4	Nighttime	5.88
Ensuite	Nighttime	8.04
WIL	Daytime	2.43
Hall	Daytime	8.68
Bath	Daytime	5.15

Window and glazed door type and performance

Default windows*

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



Custom windows*

Window ID	Window Description	Maximum U-value*	SHGC*	Substitution tolerance ranges	
				SHGC lower limit	SHGC upper limit
WID-102-001	Aluminium Sliding Window SG 4Clr	6.3	0.76	0.72	0.79
WID-106-003	Aluminium Fixed Window SG 4ETClr	3.9	0.66	0.63	0.69
WID-102-005	Aluminium Sliding Window SG 4ETClr	4.5	0.63	0.60	0.66
WID-104-007	Aluminium Sliding Door SG 4ET	4.4	0.61	0.58	0.64
WID-101-019	Aluminium Awning Window SG 4ET	4.9	0.55	0.52	0.58

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Butlers/Laundry	WID-102-001-003	Butlers/Laundry	600	1600	Sliding	45	SE	No
Kitchen/Family	WID-106-003-002	Kitchen	600	2700	Fixed	00	SE	No
Kitchen/Family	WID-106-003-002	Family W1	600	2700	Fixed	00	SE	No
Kitchen/Family	WID-102-005-002	Family W2	1800	900	Sliding	30	SW	No
Kitchen/Family	WID-102-005-002	Family W3	1800	900	Sliding	30	SW	No
Kitchen/Family	WID-104-007-003	Family ASD	2100	2700	Sliding	30	NW	No
Kitchen/Family	WID-104-007-003	Sitting ASD	2100	3600	Sliding	30	SW	No
Kitchen/Family	WID-106-003-002	Sitting Room W1	1800	2400	Fixed	00	NW	No
Home Theatre	WID-102-005-002	Home Theatre	1000	2700	Sliding	40	NW	No
Guest	WID-102-005-002	Guest W3	1800	1200	Sliding	30	NW	No
Guest	WID-101-019-003	Guest W2	1800	1200	Awning	60	NE	No
Guest	WID-101-019-003	Guest W1	1800	1200	Awning	60	NE	No
Bed 1	WID-102-005-002	Bed 1	600	2700	Sliding	45	SW	No
Void Sitting	WID-106-003-002	Void Sitting W2	600	1800	Fixed	00	SW	No
Void Sitting	WID-106-003-002	Void Sitting W1	600	2400	Fixed	00	NW	No



Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Rumpus	WID-102-005-002	Rumpus	600	2400	Sliding	45	NW	No
Bed 2	WID-101-019-003	Bed 2	600	1800	Awning	45	NW	No
Bed 3	WID-101-019-003	Bed 3 W1	1200	1200	Awning	10	NE	No
Bed 3	WID-101-019-003	Bed 3 W2	1200	1200	Awning	10	NE	No
Void Entry	WID-106-003-002	Void Entry	1200	1200	Fixed	00	NE	No
Bed 4	WID-101-019-003	Bed 4 W1	1400	900	Awning	10	NE	No
Bed 4	WID-101-019-003	Bed 4 W2	1400	900	Awning	10	NE	No
Ensuite 4	WID-102-001-003	Ensuite 4	900	900	Sliding	45	SE	No
Ensuite	WID-102-001-003	Ensuite	1000	1200	Sliding	45	SE	No

Roof window* type and performance value

Default roof windows*

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

Custom roof windows*

Window ID	Window Description	Maximum U-value*	SHGC*	Substitution tolerance ranges	
				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
Garage	2150	4810	90	NE
Entry	2340	1200	90	NE

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW-1	Timber Stud Frame Brick Veneer	0.50		No insulation	No
EW-2	Single Skin Brick	0.50		No insulation	No
EW-3	Timber Stud Frame Brick Veneer	0.50		Bulk Insulation, Air Gap R2.5	No
EW-4	Fibro Timber Stud Frame Panel Direct Fix	0.50		Bulk Insulation R2.5	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Garage	EW-1	2675	1300	SW	0	No
Garage	EW-1	2675	395	NE	600	No
Garage	EW-2	2675	5700	NE	600	No
Garage	EW-1	2675	200	NE	0	No
Garage	EW-1	2675	5500	SE	100	No
Butlers/Laundry	EW-3	3800	3290	SE	0	No
Kitchen/Family	EW-3	2550	4795	SE	0	No
Kitchen/Family	EW-3	3800	3700	SE	600	No
Kitchen/Family	EW-3	3800	4900	SW	600	No
Kitchen/Family	EW-3	3800	3700	NW	5900	No
Kitchen/Family	EW-3	3800	5300	SW	4300	No
Kitchen/Family	EW-3	3800	3695	NW	0	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Home Theatre	EW-3	3286	700	SW	3900	No
Home Theatre	EW-3	3286	4095	NW	0	No
G Ensuite	EW-3	2600	1590	NW	0	No
WIR	EW-3	2600	1590	NW	0	No
Guest	EW-3	2600	3795	NW	0	No
Guest	EW-3	2600	1900	NE	0	No
Guest	EW-3	2601	2195	NE	1100	No
Entry	EW-3	2600	1795	NE	1100	No
Entry	EW-3	2600	1200	SE	0	No
Bed 1 WIR	EW-3	2450	4795	SE	600	No
Bed 1 WIR	EW-4	2450	2095	SW	700	No
Bed 1	EW-4	2450	4690	SW	700	No
Void Sitting	EW-4	2450	3395	SW	700	No
Void Sitting	EW-3	2450	3695	NW	600	No
Rumpus	EW-3	2450	700	SW	4400	No
Rumpus	EW-3	2450	3795	NW	600	No
Bed 2	EW-3	2450	3990	NW	600	No
Bed 3	EW-3	2450	2595	NW	600	No
Bed 3	EW-3	530	700	NW	0	No
Bed 3	EW-4	1921	700	NW	600	No
Bed 3	EW-3	530	4095	NE	0	No
Bed 3	EW-4	1920	4095	NE	400	No
Void Entry	EW-3	530	1795	NE	0	No
Void Entry	EW-4	1920	1795	NE	400	No
Void Entry	EW-3	530	600	SE	0	No
Void Entry	EW-4	1920	600	SE	4400	No
Bed 4	EW-4	2450	3695	NE	700	No
Bed 4	EW-4	2450	3695	SE	700	No
Ensuite 4	EW-4	2450	1300	NE	4400	No
Ensuite 4	EW-3	2450	2395	SE	600	No
Ensuite	EW-3	2450	3290	SE	600	No



Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation [R-value]
IW-001	Timber Stud Frame, Direct Fix Plasterboard	138.98	Bulk Insulation, No Air Gap R2.5
IW-002	Timber Stud Frame, Direct Fix Plasterboard	147.00	No insulation

Floor type

Location	Construction	Area [m ²]	Sub-floor ventilation	Insulation [R-value]	Slab edge insulation [R-value]	Covering
Garage	Waffle pod slab 175 mm 100mm	33.92	None	Waffle Pod 175mm		Bare
Butlers/Laundry	Waffle pod slab 225 mm 100mm	8.04	None	Waffle Pod 225mm		Ceramic Tiles 8mm
Kitchen/Family	Waffle pod slab 225 mm 100mm	62.84	None	Waffle Pod 225mm		Ceramic Tiles 8mm
Home Theatre	Waffle pod slab 225 mm 100mm	16.32	None	Waffle Pod 225mm		Ceramic Tiles 8mm
G Ensuite	Waffle pod slab 225 mm 100mm	7.64	None	Waffle Pod 225mm		Ceramic Tiles 8mm
WIR	Waffle pod slab 225 mm 100mm	4.27	None	Waffle Pod 225mm		Ceramic Tiles 8mm
Guest	Waffle pod slab 225 mm 100mm	15.30	None	Waffle Pod 225mm		Ceramic Tiles 8mm
Entry	Waffle pod slab 225 mm 100mm	21.93	None	Waffle Pod 225mm		Ceramic Tiles 8mm
WC	Waffle pod slab 225 mm 100mm	2.20	None	Waffle Pod 225mm		Ceramic Tiles 8mm
Bed 1 WIR / Kitchen/Family	Timber Framed Timber Above Plasterboard 19mm	10.64		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Bed 1 / Kitchen/Family	Timber Framed Timber Above Plasterboard 19mm	16.73		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Void Sitting / Kitchen/Family	Timber Framed Timber Above Plasterboard 19mm	9.49		Bulk Insulation R2		Ceramic Tiles 8mm



Location	Construction	Area [m ²]	Sub-floor ventilation	Insulation [R-value]	Slab edge insulation [R-value]	Covering
Rumpus / Kitchen/Family	Timber Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Rumpus / Home Theatre	Timber Framed Timber Above Plasterboard 19mm	7.20		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Rumpus / Entry	Timber Framed Timber Above Plasterboard 19mm	2.35		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Rumpus / WC	Timber Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Bed 2 / Home Theatre	Timber Framed Timber Above Plasterboard 19mm	0.86		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Bed 2 / G Ensuite	Timber Framed Timber Above Plasterboard 19mm	7.88		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Bed 2 / WIR	Timber Framed Timber Above Plasterboard 19mm	4.13		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Bed 2 / Guest	Timber Framed Timber Above Plasterboard 19mm	0.74		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Bed 3 / Guest	Timber Framed Timber Above Plasterboard 19mm	14.21		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Void Entry / Entry	Timber Framed Timber Above Plasterboard 19mm	0.39		Bulk Insulation R2		Ceramic Tiles 8mm
Bed 4 / Garage	Timber Framed Timber Above Plasterboard 19mm	11.16		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Bed 4	Suspended Floor Timber Frame 19mm	1.91	Totally Open	Bulk Insulation in Contact with Floor R2		Cork Tiles or Parquetry 8mm



Location	Construction	Area [m ²]	Sub-floor ventilation	Insulation [R-value]	Slab edge insulation [R-value]	Covering
Ensuite 4 / Garage	Timber Framed Timber Above Plasterboard 19mm	5.88		Bulk Insulation R2		Ceramic Tiles 8mm
Ensuite / Butlers/Laundry	Timber Framed Timber Above Plasterboard 19mm	8.04		Bulk Insulation R2		Ceramic Tiles 8mm
WIL / Kitchen/Family	Timber Framed Timber Above Plasterboard 19mm	2.43		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Hall / Entry	Timber Framed Timber Above Plasterboard 19mm	8.63		Bulk Insulation R2		Cork Tiles or Parquetry 8mm
Bath / Garage	Timber Framed Timber Above Plasterboard 19mm	5.15		Bulk Insulation R2		Ceramic Tiles 8mm

Ceiling type

Location	Construction material/type	Bulk insulation [R-value] (may include edge batt values)
Garage	Plasterboard on Timber	No insulation
Garage	Timber Framed Timber Above Plasterboard	Bulk Insulation R2
Butlers/Laundry	Timber Framed Timber Above Plasterboard	Bulk Insulation R2
Kitchen/Family	Plasterboard on Timber	Bulk Insulation R6
Kitchen/Family	Plasterboard on Timber	Bulk Insulation R3
Kitchen/Family	Timber Framed Timber Above Plasterboard	Bulk Insulation R2
Home Theatre	Timber Framed Timber Above Plasterboard	Bulk Insulation R2
G Ensuite	Timber Framed Timber Above Plasterboard	Bulk Insulation R2
WIR	Timber Framed Timber Above Plasterboard	Bulk Insulation R2
Guest	Timber Framed Timber Above Plasterboard	Bulk Insulation R2
Entry	Timber Framed Timber Above Plasterboard	Bulk Insulation R2
WC	Timber Framed Timber Above Plasterboard	Bulk Insulation R2
Bed 1 WIR	Plasterboard on Timber	Bulk Insulation R6
Bed 1 WIR	Plasterboard on Timber	Bulk Insulation R3
Bed 1	Plasterboard on Timber	Bulk Insulation R6
Bed 1	Plasterboard on Timber	Bulk Insulation R3
Void Sitting	Plasterboard on Timber	Bulk Insulation R6



Location	Construction material/type	Bulk insulation [R-value] (may include edge batt values)
Void Sitting	Plasterboard on Timber	Bulk Insulation R3
Rumpus	Plasterboard on Timber	Bulk Insulation R6
Rumpus	Plasterboard on Timber	Bulk Insulation R3
Bed 2	Plasterboard on Timber	Bulk Insulation R6
Bed 2	Plasterboard on Timber	Bulk Insulation R3
Bed 3	Plasterboard on Timber	Bulk Insulation R6
Bed 3	Plasterboard on Timber	Bulk Insulation R3
Void Entry	Plasterboard on Timber	Bulk Insulation R6
Void Entry	Plasterboard on Timber	Bulk Insulation R3
Bed 4	Plasterboard on Timber	Bulk Insulation R6
Bed 4	Plasterboard on Timber	Bulk Insulation R3
Ensuite 4	Plasterboard on Timber	Bulk Insulation R6
Ensuite 4	Plasterboard on Timber	Bulk Insulation R3
Ensuite	Plasterboard on Timber	Bulk Insulation R6
Ensuite	Plasterboard on Timber	Bulk Insulation R3
WIL	Plasterboard on Timber	Bulk Insulation R6
Hall	Plasterboard on Timber	Bulk Insulation R6
Bath	Plasterboard on Timber	Bulk Insulation R6

Ceiling penetrations*

Location	Quantity	Type	Diameter [mm]	Sealed/unsealed
Kitchen/Family	1	Exhaust Fans	300	Sealed
G Ensuite	1	Exhaust Fans	300	Sealed
WC	1	Exhaust Fans	300	Sealed
Ensuite 4	1	Exhaust Fans	300	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
Bath	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Kitchen/Family	1	900
Home Theatre	1	900



Location	Quantity	Diameter [mm]
Rumpus	1	900

Roof type

Construction	Insulation [R-value]	Reflective wrap* [yes/no]	Solar absorptance [colour]	Roof shade
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, Anti-glare Up R1.3		0.50	Medium
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3		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]
No Data Available				

Appliance schedule

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

Cooling system

Appliance/ system type	Location	Fuel type	Performance	Recommended capacity
No Data Available				

Heating system

Appliance/ system type	Location	Fuel type	Performance	Recommended capacity
No Data Available				

Hot water system

Appliance/ system type	Fuel type	Performance	Hot water CER* zone
No Data Available			

Lighting

Lighting power density [W/m ²] (default assumption 5W/m ²)
No Data Available



Cooking

Cooktop type	Oven type
No Data Available	

Pool/spa equipment

Appliance/ system type	Volume [Litres]	Star rating	Recommended pump capacity [W]
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 home's 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.
CER	Clean Energy Regulator
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 home's 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.
Modelled airtightness	the air permeability rate determined by software inputs when generating this rating. This is for informational purposes only and not suitable for assessing compliance.
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). NatHERS uses a 10-year STC.
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 attached to 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)