

Nationwide House Energy Rating Scheme®

NatHERS® Certificate No. 0012089082

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

Property

Address Unit 62A, 62 Dutton Street,
Bankstown , NSW , 2200

Lot/DP Lot 16 DP 605116

NCC class* 1a

Floor/all Floors G of 2 floors

Type New Home

Plans

Main plan H28

Prepared by Bellevue architects

Construction and environment

Assessed floor area [m2]*		Exposure type
Conditioned*	166.5	Suburban
Unconditioned*	8.0	
Total	195.5	NatHERS climate zone
Garage	21.1	56 Mascot (Sydney Airport)



Accredited assessor

Name Noura Al Hazzouri

Business name none

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Accreditation No. DMN/18/1891

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration completed: no conflicts

NCC Requirements

NCC provisions Volume Two

Strate/Territory variation Yes

National Construction Code (NCC) requirements

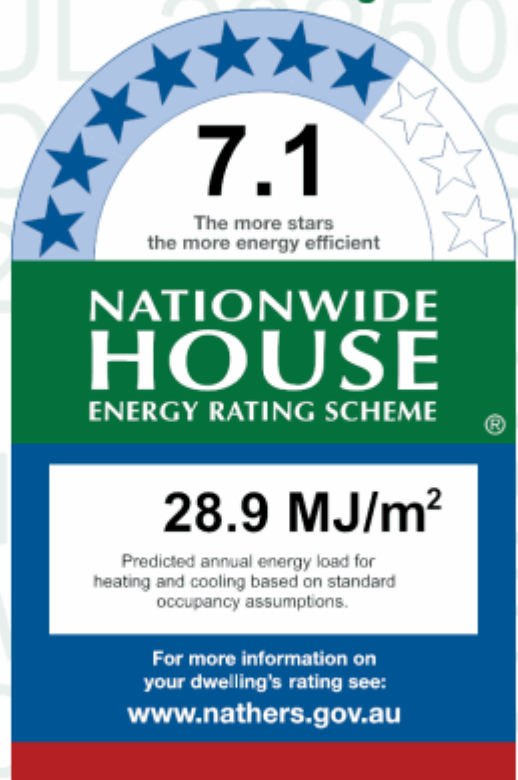
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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

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 Load limits	11.6 N/A	17.3 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?](http://hstar.com.au/QR/Generate?p=utlJQgJko)
[p=utlJQgJko](http://hstar.com.au/QR/Generate?p=utlJQgJko) .
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

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	Occupancy/Other

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

Thermal bridging

Does the dwelling meet the NCC requirement for thermal bridging?

☐ ☐ ☐ ☐

Insulation installation method

Has the insulation been installed according to the NCC requirements?

☐ ☐ ☐

Building sealing

Does the dwelling meet the NCC requirements for Building Sealing?

☐ ☐ ☐ ☐

Whole of Home performance check (not applicable if a Whole of Home 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 as 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

Room schedule

Room	Zone Type	Area [m ²]
Garage	Garage	21.07
entry	Daytime	26.11
ens	Nighttime	3.62
wir	Nighttime	3.28
Guest Bedroom	Bedroom	9.18
ldry	Unconditioned	3.82
butler	Daytime	4.62
Kitchen/Living	Kitchen/Living	51.83
Master Bedroom	Bedroom	20.18
ens	Nighttime	5.23
Wir	Nighttime	4.77
Bedroom 2	Bedroom	11.09
ens	Nighttime	3.62
Bedroom 3	Bedroom	12.24
Bedroom 4	Bedroom	10.51
bath	Unconditioned	4.16
family room	Living	23.4

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
ALM-001-03 A	Aluminium A SG High Solar Gain Low-E	5.4	0.49	0.47	0.51
ALM-002-03 A	Aluminium B SG High Solar Gain Low-E	5.4	0.58	0.55	0.61

Custom windows*

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

Window and glazed door *schedule*

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Garage	ALM-001-03 A	W.01a	1800	810	Awning	45	N	No
Garage	ALM-001-03 A	W.02a	1800	810	Awning	45	N	No
entry	ALM-002-03 A	D.01a	2470	450	Fixed	00	W	No
entry	ALM-002-03 A	D.01a	2470	450	Fixed	00	W	No
ens	ALM-001-03 A	W.03a	600	1400	Awning	90	N	No
Guest Bedroom	ALM-002-03 A	W.04a	1400	1600	Sliding	45	N	No
Idry	ALM-001-03 A	W.05a	2100	600	Awning	45	N	No
Kitchen/Living	ALM-002-03 A	D.10a	3600	3600	Sliding	60	N	No
Kitchen/Living	ALM-002-03 A	W.06a	3600	2100	Fixed	00	W	No
Kitchen/Living	ALM-001-03 A	W.07a	2800	800	Awning	45	N	No
Kitchen/Living	ALM-001-03 A	W.08a	2800	800	Awning	45	N	No
Kitchen/Living	ALM-002-03 A	D.11a	3200	5000	Sliding	45	E	Yes
Master Bedroom	ALM-001-03 A	W.10a	600	2200	Awning	45	N	No
Master Bedroom	ALM-002-03 A	D.12a	2400	3300	Sliding	60	W	No
ens	ALM-001-03 A	W.11a	600	1400	Awning	90	N	Yes
Bedroom 2	ALM-001-03 A	W.12a	600	2200	Awning	45	N	No
ens	ALM-001-03 A	W.13a	600	1400	Awning	90	N	No
Bedroom 3	ALM-001-03 A	W.14a	600	2200	Awning	45	N	No
Bedroom 3	ALM-002-03 A	W.15a	1400	1600	Sliding	45	E	No
Bedroom 4	ALM-002-03 A	W.16a	1400	1600	Sliding	45	E	No
family room	ALM-002-03 A	D.01a	3000	2050	Fixed	00	W	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
GEN-04-009a	Double-glazed opal, Timber and Aluminium Frame	0.5

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m ²]	Orientation	Outdoor shade	Diffuser
bath	GEN-04-009a	S1	50	0.47	E	None	No

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage	2400	3100	90	W
entry	2450	1100	90	W

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW-1	Cavity Brick	0.50		Foil Sided Bubble Wrap, Anti-glare one side	No
EW-2	Timber Stud Frame Brick Veneer	0.50		Anti-glare foil with bulk no gap R2.7	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	2700	335	NW	0	No
Garage	EW-1	2700	381	N	0	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Garage	EW-1	2700	5535	N	0	No
Garage	EW-1	2700	3085	W	0	No
entry	EW-1	2700	2435	W	0	No
ens	EW-1	3150	1980	N	0	No
Guest Bedroom	EW-1	3150	3040	N	0	No
Idry	EW-1	3150	1745	N	0	No
Idry	EW-1	3150	2245	E	4050	No
Kitchen/Living	EW-1	3600	4050	N	0	No
Kitchen/Living	EW-1	3600	2250	W	4050	No
Kitchen/Living	EW-1	3600	4950	N	0	No
Kitchen/Living	EW-1	3600	6200	E	0	No
Master Bedroom	EW-2	2500	4145	N	0	No
Master Bedroom	EW-2	2500	3800	W	2000	No
ens	EW-2	2500	2640	N	0	No
Bedroom 2	EW-2	2500	3390	N	0	No
ens	EW-2	2500	1890	N	0	No
Bedroom 3	EW-2	2500	3345	N	0	No
Bedroom 3	EW-2	2500	3050	E	350	No
Bedroom 3	EW-2	2500	750	S	3150	No
Bedroom 4	EW-2	2500	3145	E	1100	No
family room	EW-2	3000	2400	W	600	No
family room	EW-2	2500	1995	N	3800	No

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Single Skin Brick	21.33	No insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	159.08	No insulation
IW-003	Cavity brick, plasterboard	105.70	No Insulation
IW-004	Timber Stud Frame, Direct Fix Plasterboard	6.75	Bulk Insulation, Air Gap R2.7



Floor type

Location	Construction	Area [m ²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage	Suspended Concrete Slab 200mm	21.07	Enclosed	No Insulation	Bare
entry	Suspended Concrete Slab 200mm	26.11	Enclosed	No Insulation	Ceramic Tiles 8mm
ens	Suspended Concrete Slab 200mm	3.62	Enclosed	No Insulation	Ceramic Tiles 8mm
wir	Suspended Concrete Slab 200mm	3.28	Enclosed	No Insulation	Ceramic Tiles 8mm
Guest Bedroom	Suspended Concrete Slab 200mm	9.18	Enclosed	No Insulation	Ceramic Tiles 8mm
ldry	Suspended Concrete Slab 200mm	3.82	Enclosed	No Insulation	Ceramic Tiles 8mm
butler	Suspended Concrete Slab 200mm	4.62	Enclosed	No Insulation	Ceramic Tiles 8mm
Kitchen/Living	Suspended Concrete Slab 200mm	51.83	Enclosed	No Insulation	Ceramic Tiles 8mm
Master Bedroom / Garage	Concrete Timber Framed Above Plasterboard 200mm	14.85		No Insulation	Cork Tiles or Parquetry 8mm
Master Bedroom / entry	Concrete Timber Framed Above Plasterboard 200mm	5.06		No Insulation	Cork Tiles or Parquetry 8mm
ens / ens	Concrete Timber Framed Above Plasterboard 200mm	3.79		No Insulation	Ceramic Tiles 8mm
ens / Guest Bedroom	Concrete Timber Framed Above Plasterboard 200mm	0.93		No Insulation	Ceramic Tiles 8mm
Wir / entry	Concrete Timber Framed Above Plasterboard 200mm	0.83		No Insulation	Cork Tiles or Parquetry 8mm
Wir / wir	Concrete Timber Framed Above Plasterboard 200mm	3.09		No Insulation	Cork Tiles or Parquetry 8mm
Wir / Guest Bedroom	Concrete Timber Framed Above Plasterboard 200mm	0.31		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2 / entry	Concrete Timber Framed Above Plasterboard 200mm	0.32		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2 / Guest Bedroom	Concrete Timber Framed Above Plasterboard 200mm	7.45		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2 / ldry	Concrete Timber Framed Above Plasterboard 200mm	1.72		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2 / Kitchen/Living	Concrete Timber Framed Above Plasterboard 200mm	0.69		No Insulation	Cork Tiles or Parquetry 8mm
ens / ldry	Concrete Timber Framed Above Plasterboard 200mm	1.52		No Insulation	Ceramic Tiles 8mm
ens	Suspended Concrete Slab 200mm	1.92	Open	No Insulation	Ceramic Tiles 8mm
Bedroom 3 / Kitchen/Living	Concrete Timber Framed Above Plasterboard 200mm	5.02		No Insulation	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m ²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bedroom 3	Suspended Concrete Slab 200mm	6.71	Open	No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 4 / Kitchen/Living	Concrete Timber Framed Above Plasterboard 200mm	10.52		No Insulation	Cork Tiles or Parquetry 8mm
bath / butler	Concrete Timber Framed Above Plasterboard 200mm	2.20		No Insulation	Cork Tiles or Parquetry 8mm
bath / Kitchen/Living	Concrete Timber Framed Above Plasterboard 200mm	1.52		No Insulation	Cork Tiles or Parquetry 8mm
family room / entry	Concrete Timber Framed Above Plasterboard 200mm	9.43		No Insulation	Cork Tiles or Parquetry 8mm
family room / butler	Concrete Timber Framed Above Plasterboard 200mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
family room / Kitchen/Living	Concrete Timber Framed Above Plasterboard 200mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Garage	Concrete, Plasterboard with Timber Frame	No insulation	
Garage	Concrete Timber Framed Above Plasterboard	No Insulation	
entry	Concrete Timber Framed Above Plasterboard	No Insulation	
ens	Concrete Timber Framed Above Plasterboard	No Insulation	
wir	Concrete Timber Framed Above Plasterboard	No Insulation	
Guest Bedroom	Concrete Timber Framed Above Plasterboard	No Insulation	
ldry	Concrete Timber Framed Above Plasterboard	No Insulation	
butler	Concrete Timber Framed Above Plasterboard	No Insulation	
Kitchen/Living	Plasterboard on Timber	Bulk Insulation R5.5	
Kitchen/Living	Concrete Timber Framed Above Plasterboard	No Insulation	
Master Bedroom	Plasterboard on Timber	Bulk Insulation R5.5	
ens	Plasterboard on Timber	Bulk Insulation R5.5	
Wir	Plasterboard on Timber	Bulk Insulation R5.5	
Bedroom 2	Plasterboard on Timber	Bulk Insulation R5.5	
ens	Plasterboard on Timber	Bulk Insulation R5.5	
Bedroom 3	Plasterboard on Timber	Bulk Insulation R5.5	
Bedroom 4	Plasterboard on Timber	Bulk Insulation R5.5	
bath	Plasterboard on Timber	Bulk Insulation R5.5	



Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
family room	Plasterboard on Timber	Bulk Insulation R5.5	

Ceiling penetrations*

Location	Quantity	Type	Diameter [mm]	Sealed/unsealed
entry	5	Downlights - LED	0	Sealed
ens	1	Exhaust Fans	350	Sealed
wir	1	Downlights - LED	0	Sealed
Guest Bedroom	2	Downlights - LED	0	Sealed
ldry	1	Exhaust Fans	350	Sealed
butler	1	Downlights - LED	0	Sealed
butler	1	Exhaust Fans	350	Sealed
Kitchen/Living	10	Downlights - LED	0	Sealed
Kitchen/Living	1	Exhaust Fans	350	Sealed
Master Bedroom	4	Downlights - LED	0	Sealed
ens	1	Exhaust Fans	350	Sealed
Wir	1	Downlights - LED	0	Sealed
Bedroom 2	2	Downlights - LED	0	Sealed
ens	1	Exhaust Fans	350	Sealed
Bedroom 3	2	Downlights - LED	0	Sealed
Bedroom 4	2	Downlights - LED	0	Sealed
bath	1	Exhaust Fans	350	Sealed
family room	5	Downlights - LED	0	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Waterproofing Membrane	No Insulation, Only an Air Gap	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)

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

Cooling system

Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available				

Heating system

Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available				

Hot water system

Appliance/ system type	Fuel type	Hot Water CER Zone	Minimum efficiency /STC	Zone 3 STC	Zone 3 Substitution tolerance ranges		Assessed daily load [litres]
					lower limit	upper limit	
No Data Available							

Pool/spa equipment

Appliance/ system type	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available			

Onsite Renewable Energy *Schedule*

System Type	Orientation	System Size Or Generation Capacity
No Data Available		



Battery Schedule

System Type	Size [Battery Storage Capacity]
No Data Available	



Explanatory notes

About this report

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

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

* Refer to glossary.