Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011812047

Generated on 27 Mar 2025 using BERS Pro v5.2.4 (3.23)

Property

Address Unit 1, 71 Dutton Street ,

BANKSTOWN, NSW, 2200

Lot/DP Lot A DP 402398

NCC class* 1a

Floor/all Floors G of 3 floors

Type New Home

Plans

Main plan 03325
Prepared by ES Design

Construction and environment

Assessed floor area [m2]* Exp

Conditioned* 202.6 Unconditioned* 13.6

Total 286.5

Garage 70.3

Exposure type

Suburban

NatHERS climate zone 56 Mascot (Sydney Airport)



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Business name none

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Phone 0405600 600
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



NATIONWIDE HOUSE ENERGY RATING SCHEME

29.2 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	14.2	14.9
Load limits	N/A	N/A

Features determining load limits

Floor Type
(lowest conditioned area)

NCC climate zone 1 or 2

Outdoor living area

Outdoor living area ceiling fan

No

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

hstar.com.au

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





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.

Predicted Whole of Home annual impact by appliance

Energy use

No Whole
of Home
performance
assessment
conducted for 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



No Whole of Home

performance

Greenhouse gas emissions

Cost

No Whole
of Home
performance
assessment
conducted for this
certificate

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

0011812047 NatHERS Certificate

7.1 Star Rating as of 27 Mar 2025

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Certificate check	Approval Stage		Construction Stage		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	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.	Assess	Consen	Builder	Consen	Occupa
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 highrise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown					

7.1 Star Rating as of 27 M	1ar 2025
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	Approva	l Stage	Stage	ction	
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not included)	ıded in ti	he NatHE	RS 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 Home	e performa	ance asses	ssment is r	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 l	NatHERS	assessi	nent)		
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 but are not limited to: condensation, structural and fire safety requirements and any star requirements.					
Additional notes					



Room schedule

Room Zone Type		Area [m²]
Garage	Garage	70.26
storage	Daytime	19.08
storage	Daytime	26.46
WIp	Living	6.8
Kit/Liv/entry	Kitchen/Living	82.76
Guest Bedroom	Bedroom	12.55
bath	Unconditioned	6.46
ldry	Unconditioned	7.11
master Bedroom	Bedroom	17.77
ens	Nighttime	6.12
bath	Unconditioned	7.22
sitting room	Living	35.85
Bedroom 1	Bedroom	11.66
Bedroom 2	Bedroom	11.82
Bedroom 3	Bedroom	11.82

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
willdow ib	Description	U-value*	31100	SHGC lower limit	SHGC upper limit
ALM-002-03 A	Aluminium B SG High Solar Gain Low-E	5.4	0.58	0.55	0.61
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E	4.1	0.52	0.49	0.55
ALM-001-03 A	Aluminium A SG High Solar Gain Low-E	5.4	0.49	0.47	0.51

Custom windows*

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



Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Kit/Liv/entry	ALM-002-03 A	W5	600	2710	Sliding	45	S	No
Kit/Liv/entry	ALM-006-03 A	W6	2700	3850	Sliding	75	W	No
Kit/Liv/entry	ALM-006-03 A	W7	2700	3850	Sliding	75	W	No
Kit/Liv/entry	ALM-006-03 A	W8	2700	1100	Fixed	00	W	No
Kit/Liv/entry	ALM-001-03 A	n/a	2700	1100	Casement	90	Е	No
Kit/Liv/entry	ALM-001-03 A	W2	2400	850	Awning	45	Е	No
Kit/Liv/entry	ALM-001-03 A	W3	2400	850	Awning	45	E	No
Kit/Liv/entry	ALM-001-03 A	W4	2700	850	Awning	45	E	No
Guest Bedroom	ALM-001-03 A	W26	2400	2410	Awning	45	E	No
bath	ALM-001-03 A	W12	2700	610	Awning	45	N	No
ldry	ALM-002-03 A	W9	2700	610	Fixed	00	W	Yes
ldry	ALM-001-03 A	W10	2700	850	Casement	90	W	Yes
ldry	ALM-002-03 A	W11	2700	610	Fixed	00	N	No
master Bedroom	ALM-001-03 A	W16	2500	2410	Awning	45	E	No
ens	ALM-001-03 A	W13	2500	850	Awning	45	E	No
bath	ALM-001-03 A	W14	2500	850	Awning	45	E	No
sitting room	ALM-006-03 A	W18	2500	1100	Fixed	00	W	No
sitting room	ALM-006-03 A	W19	2500	1100	Fixed	00	W	No
sitting room	ALM-006-03 A	W21	2500	1100	Fixed	00	W	No
sitting room	ALM-002-03 A	W15	2500	1250	Fixed	00	E	No
Bedroom 1	ALM-002-03 A	W17	1000	2650	Sliding	45	S	No
Bedroom 2	ALM-001-03 A	W22	2400	610	Awning	45	N	No
Bedroom 2	ALM-001-03 A	W23	2400	610	Awning	45	N	No
Bedroom 3	ALM-001-03 A	W24	2400	610	Awning	45	N	No
Bedroom 3	ALM-001-03 A	W25	2400	610	Awning	45	N	No
Bedroom 3	ALM-002-03 A	W27	2500	2410	Sliding	45	Е	No
			_					



Roof window* type and performance value

Default roof windows*

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

No Data Available

Custom roof windows*

Window ID Window Maximum SHGC* Substitution tolerance ranges SHGC SHGC lower limit SHGC upper limit

No Data Available

Roof window* schedule

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

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage	2400	5200	90	E

External wall type

Wall	Wall	Solar W	<i>l</i> all shade B	Bulk insulation	Reflective
ID	type	absorptance[c	olour] [F	R-value]	wall wrap*
EW-1	Tilt Up Concrete, Lined Timber Stud Frame	0.50	Е	Bulk Insulation, Air Gap R1.5	No
EW-2	Timber Stud Frame Brick Veneer	0.50	Α	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	2400	9145	W	0	No
Garage	EW-1	2400	3795	Е	0	No
Garage	EW-1	2400	5350	Е	0	No
Garage	EW-1	2400	7700	S	0	No
storage	EW-1	2400	1545	W	0	No
storage	EW-1	2400	604	NW	0	No
storage	EW-1	2400	604	N	0	No
storage	EW-1	2400	400	N	0	No
storage	EW-1	2400	2345	E	0	No
storage	EW-1	2400	800	S	0	No
storage	EW-1	2400	3645	W	0	No
storage	EW-1	2400	7300	N	0	No
storage	EW-1	2400	3645	E	0	No
WIp	EW-2	2700	2595	S	0	No
WIp	EW-2	2700	3095	E	0	No
Kit/Liv/entry	EW-2	2700	5095	S	0	No
Kit/Liv/entry	EW-2	2700	10300	W	3100	No
Kit/Liv/entry	EW-2	2701	400	W	0	No
Kit/Liv/entry	EW-2	2700	604	NW	0	No
Kit/Liv/entry	EW-2	2700	604	N	0	No
Kit/Liv/entry	EW-2	2700	400	N	0	No
Kit/Liv/entry	EW-2	2700	2395	E	750	No
Kit/Liv/entry	EW-2	2700	350	S	1700	No
Kit/Liv/entry	EW-2	2700	361	SE	1921	No
Kit/Liv/entry	EW-2	2700	335	SE	1649	No
Kit/Liv/entry	EW-2	2702	1300	E	1550	No
Kit/Liv/entry	EW-2	2700	4195	E	0	No
Guest Bedroom	EW-2	2700	3445	N	0	No
Guest Bedroom	EW-2	2700	3695	Е	750	No

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Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]	
bath	EW-2	2700	1840	N	0	No	
ldry	EW-2	2700	3695	W	0	No	
ldry	EW-2	2700	1995	N	0	No	
master Bedroom	EW-2	2500	4045	S	0	No	
master Bedroom	EW-2	2500	4445	Е	0	No	
ens	EW-2	2500	1840	Е	0	No	
bath	EW-2	2500	1940	Е	1550	No	
sitting room	EW-2	2500	6495	W	0	No	
sitting room	EW-2	2500	604	NW	0	No	
sitting room	EW-2	2500	650	N	12	No	
sitting room	EW-2	2500	350	N	0	No	
sitting room	EW-2	2500	2290	Е	1550	No	
Bedroom 1	EW-2	2500	3645	S	0	No	
Bedroom 1	EW-2	2500	3245	W	0	No	
Bedroom 2	EW-2	2500	3695	W	100	No	
Bedroom 2	EW-2	2500	3245	N	100	No	
Bedroom 3	EW-2	2500	3245	N	100	No	
Bedroom 3	EW-2	2500	3695	E	1550	No	

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Single Skin Brick	17.52	No insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	109.63	No insulation
IW-003	Timber Stud Frame, Direct Fix Plasterboard	21.50	Bulk Insulation, Air Gap R2.7

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage	Concrete Slab on Ground 200mm	70.26	None	Bulk Insulation, Gap to Floor R2.5	Bare

7.1 Star Rating as of 27 Mar 2025



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
storage	Concrete Slab on Ground 200mm	19.08	None	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
storage	Concrete Slab on Ground 200mm	26.46	None	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
WIp / Garage	Concrete Timber Framed Above Plasterboard 100mm	6.80		No Insulation	Ceramic Tiles 8mm
Kit/Liv/entry / Garage	Concrete Timber Framed Above Plasterboard 100mm	58.03		No Insulation	Ceramic Tiles 8mm
Kit/Liv/entry / storage	Concrete Timber Framed Above Plasterboard 100mm	15.08		No Insulation	Ceramic Tiles 8mm
Guest Bedroom / storage	Concrete Timber Framed Above Plasterboard 100mm	12.55		No Insulation	Ceramic Tiles 8mm
bath / storage	Concrete Timber Framed Above Plasterboard 100mm	6.46		No Insulation	Ceramic Tiles 8mm
ldry / storage	Concrete Timber Framed Above Plasterboard 100mm	7.11		No Insulation	Ceramic Tiles 8mm
master Bedroom / WIp	Timber Framed Timber Above Plasterboard 19mm	4.24		Bulk Insulation R4	Cork Tiles or Parquetry 8mm
master Bedroom / Kit/Liv/entry	Timber Framed Timber Above Plasterboard 19mm	13.26		Bulk Insulation R4	Cork Tiles or Parquetry 8mm
ens / Kit/Liv/entry	Timber Framed Timber Above Plasterboard 19mm	6.12		Bulk Insulation R4	Ceramic Tiles 8mm
bath / Kit/Liv/entry	Timber Framed Timber Above Plasterboard 19mm	7.22		Bulk Insulation R4	Ceramic Tiles 8mm
sitting room / Kit/Liv/entry	Timber Framed Timber Above Plasterboard 19mm	26.67		Bulk Insulation R4	Ceramic Tiles 8mm
Bedroom 1 / Kit/Liv/entry	Timber Framed Timber Above Plasterboard 19mm	11.66		Bulk Insulation R4	Cork Tiles or Parquetry 8mm
Bedroom 2 / bath	Timber Framed Timber Above Plasterboard 19mm	4.41		Bulk Insulation R4	Cork Tiles or Parquetry 8mm
Bedroom 2 / Idry	Timber Framed Timber Above Plasterboard 19mm	7.19		Bulk Insulation R4	Cork Tiles or Parquetry 8mm
Bedroom 3 / Guest Bedroom	Timber Framed Timber Above Plasterboard 19mm	9.59		Bulk Insulation R4	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	insulation [R-value]	Covering
	Timber Framed Timber Above			Bulk	
Bedroom 3 / bath	Timber Framed Timber Above Plasterboard 19mm	2.01		Insulation	Cork Tiles or Parquetry 8mm
	i lasterboard i allilli			R4	

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	Bulk Insulation R2.5	
Garage	Concrete Timber Framed Above Plasterboard	No Insulation	
storage	Concrete Timber Framed Above Plasterboard	No Insulation	
storage	Concrete Timber Framed Above Plasterboard	No Insulation	
WIp	Plasterboard on Timber	Bulk Insulation R7	
WIp	Timber Framed Timber Above Plasterboard	Bulk Insulation R4	
Kit/Liv/entry	Plasterboard on Timber	Bulk Insulation R7	
Kit/Liv/entry	Timber Framed Timber Above Plasterboard	Bulk Insulation R4	
Guest Bedroom	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5	
Guest Bedroom	Timber Framed Timber Above Plasterboard	Bulk Insulation R4	
bath	Timber Framed Timber Above Plasterboard	Bulk Insulation R4	
ldry	Timber Framed Timber Above Plasterboard	Bulk Insulation R4	
master Bedroom	Plasterboard on Timber	Bulk Insulation R7	
ens	Plasterboard on Timber	Bulk Insulation R7	
bath	Plasterboard on Timber	Bulk Insulation R7	
sitting room	Plasterboard on Timber	Bulk Insulation R7	
Bedroom 1	Plasterboard on Timber	Bulk Insulation R7	
Bedroom 2	Plasterboard on Timber	Bulk Insulation R7	
Bedroom 3	Plasterboard on Timber	Bulk Insulation R7	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	
WIp	1	Downlights - LED	0	Sealed	
Kit/Liv/entry	16	Downlights - LED	0	Sealed	
Kit/Liv/entry	1	Exhaust Fans	350	Sealed	
Guest Bedroom	2	Downlights - LED	0	Sealed	
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Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed		
bath	1	Exhaust Fans	350	Sealed		
ldry	1	Exhaust Fans	350	Sealed		
master Bedroom	3	Downlights - LED	0	Sealed		
ens	1	Exhaust Fans	350	Sealed		
bath	1	Exhaust Fans	350	Sealed		
sitting room	7	Downlights - LED	0	Sealed		
Bedroom 1	2	Downlights - LED	0	Sealed		
Bedroom 2	2	Downlights - LED	0	Sealed		
Bedroom 3	2	Downlights - LED	0	Sealed		

Ceiling fans

Location	Quantity	Diameter [mm]
Kit/Liv/entry	1	1400
Guest Bedroom	1	1400
master Bedroom	1	1400
sitting room	2	1400
Bedroom 1	1	1400
Bedroom 2	1	1400
Bedroom 3	1	1400

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	0.30	Light
Waterproofing Membrane	No Insulation, Only an Air Gap	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)

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7.1 Star Rating as of 27 Mar 2025



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	Minimum efficiency	Zone 3		ibstitution e ranges	Assessed daily load
-		CER Zone	/STC	STC	lower limit	upper limit	[litres]

No Data Available

Pool/spa equipment

Appliance/ system type	Fuel type	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 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
Assessed floor area	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)	or 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)