Nationwide House Energy Rating Scheme® NatHERS® Certificate No. JA7X22O6K3

Generated on 29 Mar 2025 using FirstRate5: 5.5.5a (3.22)

Property

Address 1, 20 Grimes Place,

Davidson, NSW, 2085

Lot/DP 34/DP251101 **NCC Class*** Class 1a

Floor/all Floors

Type New Home

Plans

Main plan 3081 Rev J/20.03.2025 Prepared by Meridian Homes

Construction and environment

Assessed floor area [m²]* Exposure type
Conditioned* 177.3 suburban
Unconditioned* 19.1 NatHERS climate zone
Total 196.4 56 Mascot AMO
Garage 16.3



Accredited assessor

Name Millard Perez
Business name Thermperform

Email millard@thermperform.com.au

Phone +61402366704

Accreditation No. 101510
Assessor Accrediting Organisation

ABSA

Declaration of interest No

NCC Requirements

NCC provisions Volume 2 State/Territory variation Yes

National Construction Code (NCC) requirements

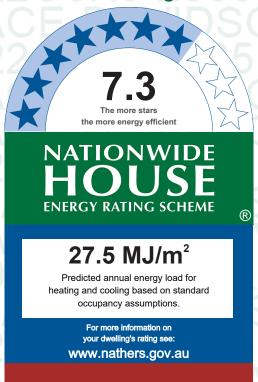
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses 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	9.6	17.9
Load limits	N/A	N/A

Features determining load limits

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

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 https://w ww.fr5.com.au/QRCodeLand ing?PublicId=JA7X22O6K3 When using either link, ensure you are visiting www.fr5.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 NatHERS heating and cooling load limits Standard 2022 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

Νo

NA - not applicable

Outdoor living area:

Yes

Nο

NA - not applicable

Outdoor living area ceiling fan:

Yes

No

NA - not applicable



Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

Certificate check	Approval	stage	Construct stage	tion	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent authority/ surveyor checked	hecked	Consent authority/ surveyor checked	Occupancy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assesso	Consent	Builder checked	Consent	Occupar
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		ı		I	I
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 the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?					

Certificate check Continued 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 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 hot water system type 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 poblipance schedule		Approval	stage	Construc stage	tion	
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Default solar absorptance/colours have been applied where no details had been provided at time of assessment.	50mm has been added to projection of eaves to account for the Gutter & Fasc	ia Board.				
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Room schedule

Room	Zone Type	Area [m²]
Guest Bed	bedroom	11.4
Garage	garage	16.3
Laundry	unconditioned	2.8
WIP	dayTime	2.8
Entry/Stairs/Bath2/Kitch/Living/Dining	kitchen	67.8
Bed 3	bedroom	12.2
Bed 2	bedroom	13.3
Bed 1 Ensuite	nightTime	7.5
Bed 1 WIR	nightTime	4.3
Bed 4	bedroom	12
Bed 1	bedroom	20.4
Stair Void	doubleHeightVoid	3.2
Sitting/Passage/Bath	living	28.5

Window and glazed door type and performance

Default* windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Availa	able				

Custom* windows

				Substitution tolerance ranges			
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit		
BRD-001-37 A	ESS Sliding Window (52mm) SG 4mmClr	6.38	0.74	0.7	0.78		
BRD-139-24 A	Essential Sliding Stacker Door SG 638ComPlsClr	4.33	0.6	0.57	0.63		
BRD-124_37 A	ESS Fixed Window External 52 SG 5mmClr	5.87	0.73	0.69	0.77		
BRD-024-34 A	ESS Double Hung Window (52mm) SG 4mmClr	6.23	0.73	0.69	0.77		

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Guest Bed	BRD-001-37 A	20-18 ASW (W01)	2060	1810	sliding	30.0	SW	No



Entry/Stairs/Ba- th2/Kitch/Livin- g/Dining	BRD-139-24 A	24-53 ASSD (D03)	2400	5346	sliding	60.0	NE	No
Entry/Stairs/Ba- th2/Kitch/Livin- g/Dining	BRD-124_37 A	06-26 AFW (W02)	600	2650	fixed	0.0	NW	No
Bed 3	BRD-001-37 A	10-18 ASW (W09)	1030	1810	sliding	10.0	NW	No
Bed 2	BRD-001-37 A	10-18 ASW (W08)	1030	1810	sliding	10.0	NW	No
Bed 1 Ensuite	BRD-024-34 A	10-08 ADW (W06)	1030	850	double_hung	45.0	SW	No
Bed 1 Ensuite	BRD-024-34 A	10-08 ADW (W07)	1030	850	double_hung	45.0	SW	No
Bed 4	BRD-001-37 A	10-18 ASW (W11)	1030	1810	sliding	10.0	NE	No
Bed 1	BRD-001-37 A	14-26 ASW (W05)	1460	2650	sliding	10.0	SW	No
Sitting/Passage- /Bath	BRD-001-37 A	10-18 ASW (W10)	1030	1810	sliding	45.0	NW	No

Roof window* type and performance value

Default* roof windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit

No Data Available

Custom* roof windows

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

No Data Available

Roof window* schedule

	Opening Area V				wiatn		Outdoor	inaoor
Location	Window ID	Window no.	%	[m²]	[mm]	Orientation	shade	shade
No Data Ava	ailable							

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

			Skylight shaft	Area	Orient-	Outdoor	
Location	Skylight ID	Skylight No.	length [mm]	[m²]	ation	shade	Diffuser



No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2150	2410	0.0	SW	
Laundry	2040	820	100.0	NW	
Entry/Stairs/Bath2/Kitch/Li- ving/Dining	2340	1020	100.0	SW	

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	ST - Brick Veneer	0.44	Medium	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No
2	ST - Parti Wall - ShaftLiner Soundshield	0.5	Medium	Polyurethane rigid foamed aged (k = 0.028) (R0.2)	No
3	ST - Brick Veneer_Garage	0.44	Medium		No
4	ST - Brick Cavity_Garage	0.44	Medium		No
5	ST - Lightweight	0.3	Light	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R2.7)	No

External wall schedule

					Horizontal shading	
		Height	Width		feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Guest Bed	1	2735	1688	NW	1420	Yes
Guest Bed	1	2735	2171	SW	700	Yes
Guest Bed	1	2735	695	SW	711	Yes
Guest Bed	1	2735	483	SE	0	Yes
Guest Bed	2	2735	3484	SE	0	No
Garage	3	2810	5449	NW	0	Yes
Garage	4	2810	2985	SW	0	Yes
Laundry	1	2735	1522	NW	0	Yes
WIP	1	2735	1513	NW	0	Yes
Entry/Stairs/Bath2/Kitch/- Living/Dining	2	2735	10793	SE	0	No
Entry/Stairs/Bath2/Kitch/- Living/Dining	1	2735	7475	NE	0	Yes
Entry/Stairs/Bath2/Kitch/- Living/Dining	1	2735	4394	NW	0	Yes
Entry/Stairs/Bath2/Kitch/- Living/Dining	1	2735	1406	SW	0	Yes



Bed 3	5	2735	3889	NE	700	No
Bed 3	5	2735	3149	NW	700	Yes
Bed 2	5	2735	4185	NW	700	Yes
Bed 1 Ensuite	5	2735	2379	NW	700	Yes
Bed 1 Ensuite	5	2735	3159	SW	700	Yes
Bed 1 WIR	2	2735	2556	SE	0	No
Bed 4	5	2735	3466	NE	700	No
Bed 4	2	2735	3795	SE	0	No
Bed 1	5	2735	1668	NW	700	Yes
Bed 1	5	2735	3458	SW	700	Yes
Bed 1	5	2735	740	SW	721	Yes
Bed 1	1	2735	465	SE	7160	Yes
Bed 1	2	2735	3917	SE	0	No
Sitting/Passage/Bath	5	2735	3166	NW	700	Yes
Sitting/Passage/Bath	2	2735	3828	SE	0	No

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	ST - Internal Plasterboard Stud Wall_Garage	23.1	Glass fibre batt: R2.5 (R2.5)
2	FR5 - Internal Plasterboard Stud Wall	137.8	

Floor type

			Sub-floor	Added insulation	
Location	Construction	Area [m²]	ventilation	[R-value]	Covering
Guest Bed	FR5 - 225mm waffle pod, 85mm concrete (R0.60)	11.4	Enclosed	R0.0	Carpet
Garage	TPM - 225mm waffle pod, 85mm concrete (R0.60) Garage	16.3	Enclosed	R0.0	none
Laundry	TPM - 225mm waffle pod, 85mm concrete (R0.60) Unconditioned	2.8	Enclosed	R0.0	Tiles
WIP	FR5 - 225mm waffle pod, 85mm concrete (R0.60)	2.8	Enclosed	R0.0	Tiles
Entry/Stairs/Bat- h2/Kitch/Living/- Dining	FR5 - 225mm waffle pod, 85mm concrete (R0.60)	67.8	Enclosed	R0.0	Tiles
Bed 3	TPM - Particleboard Lined	9.8	Enclosed	R0.0	Carpet
Bed 3	TPM - Particleboard Lined	2.4	Enclosed	R0.0	Carpet
Bed 2	TPM - Particleboard Lined	1.5	Enclosed	R0.0	Carpet
Bed 2	TPM - Particleboard Lined	11.8	Enclosed	R0.0	Carpet
Bed 1 Ensuite	TPM - Particleboard Lined	1.8	Enclosed	R0.0	Tiles
Bed 1 Ensuite	TPM - Particleboard Lined	5.7	Enclosed	R0.0	Tiles

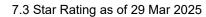
NATIONWIDE HOUSE

Bed 1 WIR	TPM - Particleboard Lined	4.3	Enclosed	R0.0	Carpet
Bed 4	TPM - Particleboard Lined	10.7	Enclosed	R0.0	Carpet
Bed 4	TPM - Particleboard Lined	1.3	Enclosed	R0.0	Carpet
Bed 1	TPM - Particleboard Lined	8.0	Elevated	R0.0	Carpet
Bed 1	TPM - Particleboard Lined	0.8	Elevated	R0.0	Carpet
Bed 1	TPM - Particleboard Lined	17.5	Enclosed	R0.0	Carpet
Bed 1	TPM - Particleboard Lined	0.2	Enclosed	R0.0	Carpet
Bed 1	TPM - Particleboard Lined	1.1	Enclosed	R0.0	Carpet
Stair Void	No Floor	3.2	Enclosed	R0.0	No Floor
Sitting/Passage/- Bath	TPM - Particleboard Lined	1.1	Enclosed	R0.0	Carpet
Sitting/Passage/- Bath	TPM - Particleboard Lined	6.5	Enclosed	R0.0	Tiles
Sitting/Passage/- Bath	TPM - Particleboard Lined	20.8	Enclosed	R0.0	Carpet

Ceiling type

ocation	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Guest Bed	TPM - Particleboard Lined	R0.0	No
Garage	TPM - Particleboard Lined	R0.0	No
aundry	TPM - Particleboard Lined	R0.0	No
VIP	TPM - Particleboard Lined	R0.0	No
Entry/Stairs/Bat- h2/Kitch/Living/- Dining	TPM - Particleboard Lined	R0.0	No
Bed 3	Plasterboard	R6.0	Yes
Bed 3	Plasterboard	R3.0	Yes
Bed 2	Plasterboard	R3.0	Yes
Bed 2	Plasterboard	R6.0	Yes
Bed 1 Ensuite	Plasterboard	R3.0	Yes
Bed 1 Ensuite	Plasterboard	R6.0	Yes
Bed 1 WIR	Plasterboard	R6.0	Yes
Bed 4	Plasterboard	R6.0	Yes
Bed 4	Plasterboard	R3.0	Yes
Bed 1	Plasterboard	R6.0	Yes
Bed 1	Plasterboard	R3.0	Yes
Bed 1	Plasterboard	R6.0	Yes
Bed 1	Plasterboard	R3.0	Yes
Stair Void	Plasterboard	R6.0	Yes
Sitting/Passage/- Bath	Plasterboard	R3.0	Yes

JA7X22O6K3 NatHERS Certificate



NATIONWIDE HOUSE	

Sitting/Passage/- Bath	Plasterboard	R6.0	Yes
Sitting/Passage/- Bath	Plasterboard	R6.0	Yes

Ceiling penetrations*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Guest Bed	1	Downlights	90	90	Sealed
Laundry	1	Exhaust Fans	250	250	Unsealed
Entry/Stairs/Bath2/Kitch/- Living/Dining	1	Exhaust Fans	250	250	Unsealed
Entry/Stairs/Bath2/Kitch/- Living/Dining	1	Exhaust Fans	250	250	Sealed
Entry/Stairs/Bath2/Kitch/- Living/Dining	7	Downlights	90	90	Sealed
Bed 3	1	Downlights	90	90	Sealed
Bed 2	1	Downlights	90	90	Sealed
Bed 1 Ensuite	2	Exhaust Fans	250	250	Unsealed
Bed 1 WIR	1	Downlights	90	90	Sealed
Bed 4	1	Downlights	90	90	Sealed
Bed 1	1	Downlights	90	90	Sealed
Stair Void	1	Downlights	90	90	Sealed
Sitting/Passage/Bath	1	Exhaust Fans	250	250	Unsealed
Sitting/Passage/Bath	3	Downlights	90	90	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Entry/Stairs/Bath2/Kitch/Living/Dini- ng	1	1400

Roof type

	Added insulation		
Construction	[R-value]	Solar absorptance	Roof shade [colour]
Cont:Attic-Continuous	1.3	0.93	Dark

Thermal bridging schedule for steel frame elements

	Steel section dimensions		Steel thickness	Thermal break
Building element	[height x width, mm]	Frame spacing [mm]	[BMT,mm]	[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

JA7X22O6K3 NatHERS Certificate

7.3 Star Rating as of 29 Mar 2025



Appliance/ system type Location Fuel type Minimum efficiency/ Recommended capacity

No Whole of Home performance assessment conducted for this certificate.

Heating system

Appliance/ system type Location Fuel type performance capacity

No Whole of Home performance assessment conducted for this certificate.

Hot water system

Minimum
efficiency/ Hot Water CER Assessed daily
Appliance/ system type Fuel type performance Zone Zone 3 STC load

No Whole of Home performance assessment conducted for this certificate. $\label{eq:conducted}$

Pool/spa equipment

Appliance/ system type Fuel type Minimum efficiency/ Recommended capacity

No Whole of Home performance assessment conducted for this certificate.

Onsite renewable energy schedule

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

System type Orientation System size or generation capacity

No Whole of Home performance assessment conducted for this certificate.

Battery schedule

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

System type Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

Explanatory Notes

About this report

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

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

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

Accredited assessors

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

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

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

Disclaimer

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

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

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

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

Glossary

•	
Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues.
	Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some
COP	circumstances it will include garages. Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating
	Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category – expose	d 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 –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category –	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
protected	
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	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or
(NCC) Class	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	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative
as foil)	properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
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JA7X22O6K3 NatHERS Certificate

7.3 Star Rating as of 29 Mar 2025

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STCs	Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought
	and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory
Thermal breaks	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is
	not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene
	insulation sheeting, plastic strips or furring channels.
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions.
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy
	screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).
Window shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features*
	(eg eaves and balconies)