Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 9OYM6YPWR2

Generated on 11 Mar 2025 using FirstRate5: 5.5.5a (3.22)

Property

Address 1, 11 Lucerne Street,

Belmore, NSW, 2192

Lot/DP 7/DP5200 NCC Class* Class 1a

Floor/all Floors

Type New Home

Plans

Main plan 25 03 Rev A/10.03.2025

Prepared by Amer Hazim

Construction and environment

Assessed floor area [m²]* Exposure type
Conditioned* 205.2 suburban

Unconditioned* 32.7 NatHERS climate zone

Total 237.9 56 Mascot AMO

Garage 20.5



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

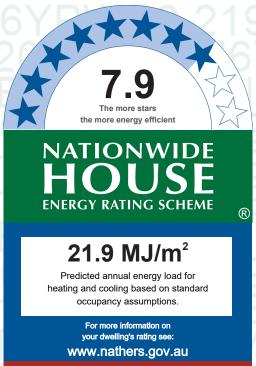
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. 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	11.5	10.4
Load limits	N/A	N/A

Features determining load limits

N/A
N/A
N/A
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=9OYM6YPWR 2 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

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

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	Approva	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. Note: The boxes indicate when and who should check each item.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
It is not mandatory to complete this checklist.	Asse	Cons	Builo	Cons	Occi
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*	I	I		I	I
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		ı	ı
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?					

	Approval	stage	Construc stage	tion		
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	in the Na	tHERS a	ssessme	nt)		
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 check)	ormance a	ssessmen	t is not con	ducted)		
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 NatH	ERS asse	essment)				
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						
Number of ceiling penetrations have been assumed.						
Eaves/overhangs may not be directly opposite to wall (some eaves may be hori	-	fset).				
150mm has been added to projection of eaves to account for the Gutter & Fasc						
Default solar absorptance/colours have been applied where no details had beer	n provided	at time of	assessme	ent.		

Room schedule

Room	Zone Type	Area [m²]
Kitchen/Living/Dining/Bathroom/Butler Pantry	kitchen	69.8
Entry/Stairs	dayTime	25.5
Bed 1	bedroom	10.6
Laundry	unconditioned	4.5
Garage	garage	20.5
Master Ensuite	nightTime	7.1
Bed 3	bedroom	12.1
Bathroom	unconditioned	7.7
Bed 2	bedroom	14.9
Master Bed/WIR	bedroom	28.9
Entry/Stair Void	doubleHeightVoid	14
Retreat	living	24.5
Bed 4	bedroom	13.9

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-112-01 A	ESS Awning 52 SG 4mmClr	6.54	0.67	0.64	0.7	
BRD-001-37 A	ESS Sliding Window (52mm) SG 4mmClr	6.38	0.74	0.7	0.78	
BRD-033-01 A	ESS Sliding Door (80mm) SG 4Clr	6.19	0.74	0.7	0.78	
BRD-124_37 A	ESS Fixed Window External 52 SG 5mmClr	5.87	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*
Kitchen/Living/- Dining/Bathroom- /Butler Pantry	BRD-112-01 A	14-08 AAW (W3)	1400	800	awning	90.0	NE	No



Kitchen/Living/- Dining/Bathroom- /Butler Pantry	BRD-001-37 A	14-24 ASW (W04)	1400	2400	sliding	30.0	NE	No
Kitchen/Living/- Dining/Bathroom- /Butler Pantry	BRD-033-01 A	28-42 ASD (WD5)	2800	4200	sliding	45.0	NW	No
Entry/Stairs	BRD-112-01 A	21-06 AAW (W06)	2100	600	awning	30.0	SE	No
Bed 1	BRD-001-37 A	13-17 ASW (W1)	1300	1700	sliding	45.0	NE	No
Laundry	BRD-112-01 A	13-08 AAW (W2)	1300	800	awning	90.0	NE	No
Garage	BRD-001-37 A	13-17 ASW (W1)	1300	1700	sliding	0.0	NE	No
Master Ensuite	BRD-112-01 A	12-08 AAW (W12)	1200	800	awning	90.0	NE	No
Bed 3	BRD-001-37 A	13-17 ASW (W01)	1300	1700	sliding	10.0	NE	No
Bathroom	BRD-112-01 A	12-08 AAW (W12)	1200	800	awning	90.0	NE	No
Bed 2	BRD-001-37 A	13-17 ASW (W01)	1300	1700	sliding	10.0	NE	No
Master Bed/WIR	BRD-001-37 A	15-33 ASW (W07)	1500	3300	sliding	10.0	NW	No
Master Bed/WIR	BRD-112-01 A	15-08 AAW (W11)	1500	800	awning	10.0	NW	No
Entry/Stair Void	BRD-124_37 A	18-12 AFW (W09)	1800	1200	fixed	0.0	SE	No
Entry/Stair Void	BRD-124_37 A	18-06 AFW (W10)	1800	600	fixed	0.0	SE	No
Bed 4	BRD-033-01 A	23-20 ASD (WD8)	2300	2000	sliding	45.0	SE	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 to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Available					

Roof window* schedule

7.9 Star Rating as of 11 Mar 2025



LocationWindow IDWindow no.%[m²][mm]OrientationShade

No Data Available

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
Entry/Stairs	2600	1200	100.0	SE
Garage	2600	2850	0.0	SE

External wall type

Wall ID	Wall type	Solar absorptance	Train Onland	Bulk insulation [R-value]	Reflective wall wrap*
1	TP-HBL - Hebel Veneer	0.5	Medium	Glass fibre batt: R1.5 (R1.5)	No
2	TP-PW - Hebel Parti Wall	0.5	Medium		No
3	TP-HBL - Hebel Veneer	0.5	Medium		No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Kitchen/Living/Dining/Bat- hroom/Butler Pantry	1	3200	1473	NE	0	Yes
Kitchen/Living/Dining/Bat- hroom/Butler Pantry	1	3200	301	SE	0	Yes
Kitchen/Living/Dining/Bat- hroom/Butler Pantry	1	3200	9769	NE	0	Yes
Kitchen/Living/Dining/Bat- hroom/Butler Pantry	1	3200	6044	NW	3500	Yes
Kitchen/Living/Dining/Bat- hroom/Butler Pantry	2	3200	12038	SW	0	No
Entry/Stairs	1	2600	2479	SE	2000	Yes
Entry/Stairs	2	2600	9137	SW	0	No
Bed 1	1	2600	2981	NE	0	Yes
Bed 1	1	2600	320	NW	0	Yes



Bed 1	1	2600	595	NE	0	Yes
Laundry	1	2600	1687	NE	0	Yes
Garage	3	3000	453	SE	2000	Yes
Garage	3	3000	1972	SW	2999	Yes
Garage	3	3000	3001	SE	0	No
Garage	3	3000	6390	NE	0	Yes
Master Ensuite	1	2700	1994	NE	300	No
Bed 3	1	2700	3792	NE	600	Yes
Bathroom	1	2700	3501	NE	300	No
Bathroom	1	2700	296	NW	14355	Yes
Bed 2	1	2700	298	SE	7342	Yes
Bed 2	1	2700	3595	NE	300	No
Master Bed/WIR	1	2700	3946	NE	300	No
Master Bed/WIR	1	2700	6043	NW	600	No
Master Bed/WIR	2	2700	6045	SW	0	No
Entry/Stair Void	1	2700	2484	SE	1770	Yes
Entry/Stair Void	2	2700	5739	SW	0	No
Retreat	2	2700	9276	SW	0	No
Bed 4	1	2700	3924	NE	249	No
Bed 4	1	2700	3464	SE	1770	Yes

Internal wall type

V	Vall ID	Wall type	Area [m²]	Bulk insulation
	1	FR5 - Internal Plasterboard Stud Wall	145.8	
	2	ST - Internal Plasterboard Stud Wall_Garage	19.7	Glass fibre batt: R1.5 (R1.5)

Floor type

71					
Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	n Covering
Kitchen/Living/D- ining/Bathroom/B- utler Pantry	FR5 - 175mm waffle pod, 85mm concrete (R0.57)	69.8	Enclosed	R0.0	Tiles
Entry/Stairs	FR5 - 175mm waffle pod, 85mm concrete (R0.57)	25.5	Enclosed	R0.0	Tiles
Bed 1	FR5 - 175mm waffle pod, 85mm concrete (R0.57)	10.6	Enclosed	R0.0	Carpet
Laundry	FR5 - 175mm waffle pod, 85mm concrete (R0.57)	4.5	Enclosed	R0.0	Tiles
Garage	FR5 - 175mm waffle pod, 85mm concrete (R0.57)	5.3	Enclosed	R0.0	none
Garage	FR5 - 175mm waffle pod, 85mm concrete (R0.57)	15.2	Enclosed	R0.0	none

NATIONWIDE HOUSE

Master Ensuite	FR5 - 200mm concrete slab Lined	7.1	Enclosed	R0.0	Tiles
Bed 3	FR5 - 200mm concrete slab Lined	12.1	Enclosed	R0.0	Carpet
Bathroom	FR5 - 200mm concrete slab Lined	7.7	Enclosed	R0.0	Tiles
Bed 2	FR5 - 200mm concrete slab Lined	14.9	Enclosed	R0.0	Carpet
Master Bed/WIR	FR5 - 200mm concrete slab Lined	28.9	Enclosed	R0.0	Carpet
Entry/Stair Void	No Floor	14	Enclosed	R0.0	No Floor
Retreat	FR5 - 200mm concrete slab Lined	24.5	Enclosed	R0.0	Tiles
Bed 4	FR5 - 200mm concrete slab Lined	13.9	Enclosed	R0.0	Carpet

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Kitchen/Living/D- ining/Bathroom/B- utler Pantry	FR5 - 200mm concrete slab Lined	R0.0	No
Entry/Stairs	FR5 - 200mm concrete slab Lined	R0.0	No
Bed 1	FR5 - 200mm concrete slab Lined	R0.0	No
Laundry	FR5 - 200mm concrete slab Lined	R0.0	No
Garage	Plasterboard	R0.0	No
Garage	FR5 - 200mm concrete slab Lined	R0.0	No
Master Ensuite	Plasterboard	R2.0	Yes
Bed 3	Plasterboard	R2.0	Yes
Bathroom	Plasterboard	R2.0	Yes
Bed 2	Plasterboard	R2.0	Yes
Master Bed/WIR	Plasterboard	R2.0	Yes
Entry/Stair Void	Plasterboard	R2.0	Yes
Retreat	Plasterboard	R2.0	Yes
Bed 4	Plasterboard	R2.0	Yes

Ceiling penetrations*

Location	Quantity	Туре	Height [mm]	Width [mm]	Sealed/unsealed
Kitchen/Living/Dining/Bat- hroom/Butler Pantry	27	Downlights	90	90	Sealed

7.9 Star Rating as of 11 Mar 2025



Kitchen/Living/Dining/Bat- hroom/Butler Pantry	2	Exhaust Fans	250	250	Sealed
Entry/Stairs	4	Downlights	90	90	Sealed
Bed 1	4	Downlights	90	90	Sealed
Laundry	1	Downlights	90	90	Sealed
Master Ensuite	2	Downlights	90	90	Sealed
Bed 3	4	Downlights	90	90	Sealed
Bathroom	2	Downlights	90	90	Sealed
Bed 2	4	Downlights	90	90	Sealed
Master Bed/WIR	10	Downlights	90	90	Sealed
Entry/Stair Void	5	Downlights	90	90	Sealed
Retreat	8	Downlights	90	90	Sealed
Bed 4	5	Downlights	90	90	Sealed

Ceiling fans

 Location
 Quantity
 Diameter [mm]

 No Data Available

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Slab:Slab - Suspended Slab : 200mm: 200mm Suspended Slab	0.0	0.5	Medium
Cont:Attic-Continuous	1.3	0.5	Medium

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

			Minimum efficiency/	Recommended		
Appliance/ system type	Location	Fuel type	performance	capacity		
No Whole of Home performance assessment conducted for this certificate.						

Heating system

Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Whole of Home performs	ance assessment co	nducted for this certification	ate.	



Zone 3 STC

Hot water system

Minimum

efficiency/ Hot Water CER

Zone

Assessed daily

load

Appliance/ system type Fuel type performance

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

Minimum efficiency/ Recommended

Appliance/ system type Fuel type performance 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 circumstances it will include garages.
СОР	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.

7.9 Star Rating as of 11 Mar 2025

NATIONWIDE HOUSE	

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)