Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 2DE099VSZE

Generated on 22 Nov 2023 using FirstRate5: 5.5.3a (3.22)

Property

Address 2, 47 Cragg St,

Condell Park, NSW, 2200

Lot/DP C/387995 NCC Class* Class 1a

Floor/all Floors

Type New Home

Plans

Main plan2023009/20-11-2023Prepared byVisualised Concepts

Construction and environment

Assessed floor area [m²]* Exposure type
Conditioned* 147.6 suburban

Unconditioned* 34.2 NatHERS climate zone

Total 181.8 56 Mascot AMO

Garage 24



Name Millard Perez
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Accreditation No. 101510
Assessor Accrediting Organisation

ASSA

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



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	13.9	15.6
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=2DE099VSZE 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.

Certificate check	Approva	l 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	Build	Cons	Occu
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				1	
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	Construct 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	'		<u>'</u>	'	
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home per	formance a	ssessmen	it 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 ass	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	1	1	1	I	
Note: This Certificate only covers the energy efficiency requirements in the NCC. A include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.					
Additional notes					
Number of ceiling penetrations have been assumed.					

Room schedule

Room	Zone Type	Area [m²]
Garage	garage	24
WC	unconditioned	4.8
Laundry	unconditioned	5.4
Guest	bedroom	9.3
Kitchen/Living/Wip /Entry	kitchen	61.2
Ensuite	nightTime	3.2
Master Bed	bedroom	17.4
Bed 3	bedroom	14.1
Bed 4	bedroom	14.5
Bed 2	bedroom	12.8
Void	doubleHeightVoid	7.9
Hall	dayTime	16.8

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-026-16 A	ESS Awning Window (52mm) SG 4EA	5	0.54	0.51	0.57	
BRD-033-03 A	ESS Sliding Door (80mm) SG 4EA	4.42	0.62	0.59	0.65	
BRD-001-13 A	ESS Sliding Window (52mm) SG 4EA	4.57	0.63	0.6	0.66	

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Garage	BRD-001-37 A	08-25 ASW (W16)	800	2500	sliding	0.0	N	No
WC	BRD-001-37 A	06-12 ASW (W15)	600	1200	sliding	45.0	N	No
Guest	BRD-026-16 A	20-05 AAW (W01)	2000	500	awning	90.0	E	No

2DE099VSZE NatHERS Certificate

7 Star Rating as of 22 Nov 2023

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Guest	BRD-026-16 A	20-05 AAW (W02)	2000	500	awning	90.0	E	No
Guest	BRD-026-16 A	20-05 AAW (W03)	2000	500	awning	90.0	E	No
Kitchen/Living/- Wip /Entry	BRD-033-03 A	23-45 ASD (SD02)	2300	4500	sliding	45.0	W	No
Kitchen/Living/- Wip /Entry	BRD-026-16 A	20-06 AAW (W13)	2000	600	awning	90.0	N	No
Kitchen/Living/- Wip /Entry	BRD-026-16 A	20-06 AAW (W14)	2000	600	awning	90.0	N	No
Ensuite	BRD-001-37 A	06-12 ASW (W27)	600	1200	sliding	45.0	N	No
Master Bed	BRD-033-03 A	23-28 ASD	2300	2800	sliding	30.0	E	No
Master Bed	BRD-001-13 A	08-25 ASW (W28)	800	2500	sliding	10.0	N	No
Bed 3	BRD-001-13 A	08-25 ASW (W26)	800	2517	sliding	10.0	N	No
Bed 4	BRD-001-13 A	08-25 ASW (W25)	800	2500	sliding	10.0	W	No
Bed 2	BRD-026-16 A	15-25 AAW (W17)	1500	2500	awning	10.0	E	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

Location	Window ID	Window no.	Opening %	Area [m²]	Width [mm]	Orientation	Outdoor shade	Indoor shade
No Data Availa		Williad William	70	r 1	[]	Orientation	Siluuc	

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	2400	3500	0.0	E	
Laundry	2150	820	100.0	N	
Kitchen/Living/Wip /Entry	2300	1250	100.0	Е	

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	TP-BV - Rendered Brick Veneer	0.5	Medium		No
2	TP-BV - Rendered Brick Veneer	0.5	Medium	Polyurethane rigid foamed aged (k = 0.028) (R3.6)	No
3	TP-PW - Parti Wall - ShaftLiner	0.5	Medium	Polyurethane rigid foamed aged (k = 0.028) (R0.2)	No

External wall schedule

		Usiaht	\A/; d4b		Horizontal shading	Vertical chading
Location	Wall ID	Height [mm]	Width [mm]	Orientation	feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Garage	1	3150	5991	N	0	Yes
Garage	1	3150	1891	W	0	Yes
Garage	1	3150	501	S	1485	Yes
Garage	1	3150	4004	E	446	Yes
WC	2	3000	1708	N	0	Yes
Laundry	2	3000	1705	W	0	Yes
Laundry	2	3000	1915	N	0	Yes
Guest	2	3000	1005	N	1487	Yes
Guest	3	3000	2994	S	0	No
Guest	2	3000	343	E	1466	Yes
Guest	2	3000	2421	Е	459	Yes
Guest	2	3000	349	E	447	Yes
Kitchen/Living/Wip /Entry	2	3000	5509	W	4385	Yes
Kitchen/Living/Wip /Entry	3	3000	11578	S	0	No
Kitchen/Living/Wip /Entry	2	3000	1796	E	987	Yes
Kitchen/Living/Wip /Entry	2	3000	4302	N	374	Yes
Ensuite	2	2700	1803	N	0	Yes
Ensuite	2	2700	1783	W	537	Yes
Master Bed	2	2700	385	N	441	Yes



Master Bed	2	2700	4128	E	1482	Yes
Master Bed	2	2700	3108	N	450	Yes
Bed 3	2	2700	3291	N	437	Yes
Bed 3	2	2700	1698	W	537	Yes
Bed 3	2	2700	2139	N	437	Yes
Bed 3	2	2700	1189	W	537	Yes
Bed 4	2	2700	4197	W	551	Yes
Bed 4	3	2700	3674	S	0	No
Bed 2	3	2700	3000	S	0	No
Bed 2	2	2700	3091	Е	459	Yes
Bed 2	2	2700	996	N	0	Yes
Bed 2	2	2700	1754	Е	1455	Yes
Bed 2	2	2700	502	N	0	Yes
Void	3	2700	2532	S	0	No
Hall	3	2700	2895	S	0	No

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	48.6	Glass fibre batt: R2.5 (R2.5)
2	FR5 - Internal Plasterboard Stud Wall	104.9	

Floor type

<i>31</i>			Sub-floor	Added insulation	
Location	Construction	Area [m²]	ventilation	[R-value]	Covering
Garage	TPM - CSOG: Slab on Ground	21	Enclosed	R0.0	none
Garage	TPM - CSOG: Slab on Ground	3	Enclosed	R0.0	none
WC	TPM - CSOG: Slab on Ground	4.8	Enclosed	R0.0	Tiles
Laundry	TPM - CSOG: Slab on Ground	5.4	Enclosed	R0.0	Tiles
Guest	TPM - CSOG: Slab on Ground	9.3	Enclosed	R0.0	Tiles
Kitchen/Living/W- ip /Entry	TPM - CSOG: Slab on Ground	49.4	Enclosed	R0.0	Tiles
Kitchen/Living/W- ip /Entry	TPM - CSOG: Slab on Ground	11.8	Enclosed	R0.0	Tiles
Ensuite	TPM - Particleboard Lined	3.2	Enclosed	R2.5	Tiles
Master Bed	TPM - Particleboard Lined	17.4	Enclosed	R2.5	Carpet
Bed 3	TPM - Particleboard Lined	14.1	Enclosed	R2.5	Carpet
Bed 4	TPM - Particleboard Lined	14.5	Enclosed	R2.5	Carpet



Bed 2	TPM - Particleboard Lined	12.8	Enclosed	R2.5	Carpet
Void	No Floor	7.9	Enclosed	R2.5	No Floor
Hall	TPM - Particleboard Lined	6.8	Enclosed	R2.5	Tiles
Hall	TPM - Particleboard Lined	10	Enclosed	R2.5	Carpet

Ceiling type

Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
TPM - Particleboard Lined	R2.5	No
Plasterboard	R0.0	No
TPM - Particleboard Lined	R2.5	No
TPM - Particleboard Lined	R2.5	No
TPM - Particleboard Lined	R2.5	No
TPM - Particleboard Lined	R2.5	No
Plasterboard	R7.3	No
Plasterboard	R6.0	Yes
	material/type TPM - Particleboard Lined Plasterboard TPM - Particleboard Lined TPM - Particleboard Lined TPM - Particleboard Lined TPM - Particleboard Lined Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard Plasterboard	material/type[may include edge batt values]TPM - Particleboard LinedR2.5PlasterboardR0.0TPM - Particleboard LinedR2.5TPM - Particleboard LinedR2.5TPM - Particleboard LinedR2.5TPM - Particleboard LinedR2.5PlasterboardR7.3PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0PlasterboardR6.0

Ceiling penetrations*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
WC	1	Downlights	90	90	Sealed
Laundry	2	Downlights	90	90	Sealed
Guest	2	Downlights	90	90	Sealed
Kitchen/Living/Wip /Entry	1	Exhaust Fans	250	250	Sealed
Kitchen/Living/Wip /Entry	20	Downlights	90	90	Sealed
Ensuite	1	Downlights	90	90	Sealed
Master Bed	6	Downlights	90	90	Sealed
Bed 3	5	Downlights	90	90	Sealed
Bed 4	5	Downlights	90	90	Sealed
Bed 2	5	Downlights	90	90	Sealed

2DE099VSZE NatHERS Certificate

7 Star Rating as of 22 Nov 2023



Void	2	Downlights	90	90	Sealed
Hall	4	Downlights	90	90	Sealed
Hall	1	Exhaust Fans	250	250	Unsealed

Ceiling fans

Location Quantity Diameter [mm]

No Data Available

Roof type

	Added insulation			
Construction	[R-value]	Solar absorptance	Roof shade [colour]	
Framed:Flat - Flat Framed (Metal Deck)	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 perform	nance assessment co	nducted for this certific	ate.	

Heating system

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

Hot water system

			Substitution tolerance ranges		
		Minimum			
		efficiency/	Zone 3 STC	Zone 3 STC	Assessed daily
Appliance/ system type	Fuel type	performance	lower limit	upper limit	load

Pool/spa equipment

Appliance/ system type	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Whole of Home performance assessment	conducted for this certificate	9.	

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

AFRC Assessed floor area Ceiling penetrations Conditioned COP Custom windows EER Energy use Energy value Entrance door Exposure category – exposed to Exposure category – suburban Exposure category – to suburban	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions. Australian Fenestration Rating Council 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. 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. 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. Coefficient of performance windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating. windows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input This is your homes rating without solar or batteries.
Assessed floor area Ceiling penetrations Conditioned COP Custom windows EER Energy use Energy value Entrance door Exposure category – exposed to Exposure category – suburban Exposure category – to suburban Exposure category – to suburban Exposure category – to protected Horizontal shading feature	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. 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. 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. Coefficient of performance windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating. windows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input This is your homes rating without solar or batteries.
Ceiling penetrations Conditioned COP Custom windows EER Energy use Energy value Entrance door Exposure category – exposed to Exposure category – to suburban	area in the design documents. 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. 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. Coefficient of performance windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating. windows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input This is your homes rating without solar or batteries.
Conditioned COP Custom windows EER Energy use Energy value Entrance door Exposure category – exposed to Exposure category – to suburban Exposure category – t	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. 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. Coefficient of performance windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating. windows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input This is your homes rating without solar or batteries.
COP Custom windows Default windows EER Energy use Energy value Entrance door Exposure category – exposed to Exposure category – open Exposure category – suburban Exposure category – to suburban Exposure category – to protected Horizontal shading feature	circumstances it will include garages. Coefficient of performance windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating. windows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input This is your homes rating without solar or batteries.
Custom windows Default windows EER Energy use Energy value Entrance door Exposure category – exposed to see the	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating. windows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input This is your homes rating without solar or batteries.
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EER Energy use Energy value Energy value Entrance door to Exposure category – exposed Exposure category – open to Exposure category – to suburban Exposure category – to protected Horizontal shading feature	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input This is your homes rating without solar or batteries.
Energy use Energy value Entrance door Exposure category – exposed to see the	This is your homes rating without solar or batteries.
Energy value Entrance door Exposure category – exposed to see the se	<u> </u>
Entrance door t Exposure category – exposed t Exposure category – open t Exposure category – t suburban Exposure category – t protected Horizontal shading feature	
Exposure category – exposed to see Exposure category – open to see Exposure category – to suburban Exposure category – to protected Horizontal shading feature	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).
Exposure category – open Exposure category – tsuburban Exposure category – tprotected Horizontal shading feature	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilate corridor in a Class 2 building.
Exposure category – tsuburban Exposure category – tprotected Horizontal shading feature	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
suburban Exposure category – t protected Horizontal shading feature	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 – t protected Horizontal shading feature	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
protected Horizontal shading feature	
Horizontal shading feature	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
	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 t	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
ţ	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
' '	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.
	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties.
	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 i	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
_	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.
Skylight (also known as roof flights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.

2DE099VSZE NatHERS Certificate

7 Star Rating as of 22 Nov 2023

<u> </u>	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)