Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 8H194DTEZR

Generated on 11 Jul 2024 using FirstRate5: 5.5.5 (3.22)

Property

Address 1, 17 CALDWELL PARADE,

YAGOONA, NSW, 2199

Lot/DP 289/DP12704 **NCC Class*** Class 1a

Floor/all Floors

Type New Home

Plans

Main plan 24009/Jun 24
Prepared by DD STUDIO

Construction and environment

Assessed floor area [m²]* Exposure type
Conditioned* 162.3 suburban

Unconditioned* 49.1 NatHERS climate zone

Total 211.4 56 Mascot AMO

Garage 38.1



Accredited assessor

Name JACOB GUARNACCIA

Business name Wollongong Energy Efficiency

Email jacob@wollongongenergyefficiency.com

 Phone
 0411583869

 Accreditation No.
 HERA10149

Assessor Accrediting Organisation

HERA

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	17.8	12
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=8H194DTEZR 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	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. 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	Consent	Build	Cons	Occı
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	
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	atHERS 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				I	
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home performance check)	formance 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. A include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.					
Additional notes					
Lighting as per NatHERS spec					
Neighbours shading as per NatHERS spec					
Flooring as per NatHERS spec					

Room schedule

Room	Zone Type	Area [m²]
Butler's Pantry	dayTime	3.4
Laundry	unconditioned	4.3
WC	dayTime	3.3
Garage	garage	38.1
Passage	dayTime	14.5
Kitchen/Living/Dining	kitchen	55.4
Bedroom 2	bedroom	17.2
Bedroom 4	bedroom	14.2
Bathroom	unconditioned	6.7
Ensuite	nightTime	5
Wir	nightTime	7
Master Bedroom	bedroom	20.7
Bedroom 2	bedroom	15.1
Void	doubleHeightVoid	11.9
Passage	dayTime	8.3

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 Availab	ole				

Custom* windows

				Substitution tolerance ranges			
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit		
BRD-001-13 A	ESS Sliding Window (52mm) SG 4EA	4.57	0.63	0.6	0.66		
BRD-030-09 A	ESS Hinged Door (100mm) SG 4EA	4.52	0.53	0.5	0.56		
BRD-041-02 A	SIG Fixed Lite Externally Glazed (125mm) SG 4EA	4.29	0.62	0.59	0.65		
BRD-026-16 A	ESS Awning Window (52mm) SG 4EA	5	0.54	0.51	0.57		
BRD-034-03 A	SIG Sliding Door (100mm) SG 4EA	4.23	0.62	0.59	0.65		

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]		Window type	Opening %	Orientation	Window shading device*
Butler's Pantry	BRD-001-13 A	W2	750	1200	sliding	45.0	W	No

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Laundry	BRD-030-09 A	Laundry	2400	820	casement	90.0	W	No
Passage	BRD-041-02 A	W1	300	2000	fixed	0.0	S	No
Passage	BRD-041-02 A	SL	2400	800	fixed	0.0	S	No
Kitchen/Living/- Dining	BRD-041-02 A	W3	750	2100	fixed	0.0	W	Yes
Kitchen/Living/- Dining	BRD-026-16 A	W5	1800	1800	awning	30.0	E	Yes
Kitchen/Living/- Dining	BRD-026-16 A	W4	1800	1800	awning	30.0	E	Yes
Kitchen/Living/- Dining	BRD-034-03 A	SD1	2400	6000	sliding	45.0	N	No
Bedroom 2	BRD-001-13 A	W9	750	2400	sliding	45.0	N	No
Bedroom 4	BRD-001-13 A	W10	750	2400	sliding	45.0	N	No
Bathroom	BRD-001-13 A	W11	2400	1200	sliding	45.0	E	Yes
Ensuite	BRD-026-16 A	W12	1800	750	awning	45.0	E	Yes
Master Bedroom	BRD-034-03 A	SD2	2400	2700	sliding	45.0	S	No
Bedroom 2	BRD-001-13 A	W8	750	2400	sliding	45.0	W	Yes
Bedroom 2	BRD-026-16 A	W7	1800	750	awning	45.0	S	Yes
Void	BRD-041-02 A	W1	2700	2000	fixed	0.0	S	No
Void	BRD-041-02 A	W6	750	3000	fixed	0.0	W	Yes

Roof window* type and performance value

Default* roof windows

Substitution to	lerance ranges
SHGC lower limit	SHGC upper limit

		Maximum		CLICC lavvar limit	01100
Window ID	Window description	U-value*	SHGC*	SHGC lower limit	SHGC up
No Data Available					

Custom* roof windows

Substitution tolerance ranges

				Cabolitation toloranoo rangoo	
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit

No Data Available

Roof window* schedule

			Openin	g Area	wiatn		Outdoor	indoor
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 ID

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Skylight shaft Skylight No. length [mm]

Area Orient-[m²] ation Outdoor shade

Diffuser

No Data
Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage	2300	4950	100.0	S
Passage	2400	1200	100.0	S

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	01 - BRICK VENEER ANTIGLARE + R2.5	0.2	Light	Polystyrene extruded: R2.0 (R2.0);Glass fibre batt: R2.5 (R2.5)	No
2	FR5 - Brick Veneer	0.5	Medium		No
3	FR5 - Double Brick	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)
Butler's Pantry	1	2700	1492	W	0	No
Laundry	1	2700	1590	W	0	No
Laundry	1	2700	1243	S	0	Yes
Garage	2	2700	2441	W	0	Yes
Garage	3	2700	5675	S	437	No
Garage	2	2700	5989	E	0	Yes
Garage	2	2700	1102	N	0	Yes
Garage	2	2700	1688	E	0	Yes
Passage	1	2700	2750	S	0	Yes
Passage	1	2700	4961	W	0	Yes
Kitchen/Living/Dining	1	2700	4376	W	0	Yes
Kitchen/Living/Dining	1	2700	7357	E	0	Yes
Kitchen/Living/Dining	1	2700	8660	N	3734	Yes
Bedroom 2	1	2600	3876	W	0	No
Bedroom 2	1	2600	4663	N	383	No
Bedroom 4	1	2600	3870	E	0	Yes
Bedroom 4	1	2600	3905	N	400	No
Bathroom	1	2600	2008	E	0	Yes
Ensuite	1	2600	1494	E	0	Yes
Wir	1	2600	2087	E	0	Yes

HOUSE	

Master Bedroom	1	2600	1411	W	2430	Yes
Master Bedroom	1	2600	4130	S	1926	Yes
Master Bedroom	1	2600	460	S	0	Yes
Master Bedroom	1	2600	4262	Е	0	Yes
Bedroom 2	1	2600	3687	W	0	No
Bedroom 2	1	2600	1248	S	0	Yes
Void	1	2900	2734	S	3359	Yes
Void	1	2600	4958	W	0	Yes

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	01 - INT WALL + R2	65.6	Glass fibre batt: R2.0 (R2.0)
2	FR5 - Internal Plasterboard Stud Wall	116.6	

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Butler's Pantry	FR5 - CSOG: Slab on Ground	3.4	Enclosed	R2.0	Tiles
Laundry	FR5 - CSOG: Slab on Ground	4.3	Enclosed	R2.0	Tiles
WC	FR5 - CSOG: Slab on Ground	3.3	Enclosed	R2.0	Tiles
Garage	FR5 - CSOG: Slab on Ground	10.2	Enclosed	R2.0	none
Garage	FR5 - CSOG: Slab on Ground	27.9	Enclosed	R2.0	none
Passage	FR5 - CSOG: Slab on Ground	14.5	Enclosed	R2.0	Tiles
Kitchen/Living/D- ining	FR5 - CSOG: Slab on Ground	55.4	Enclosed	R2.0	Tiles
Bedroom 2	1 - TIMBER FLOOR PLASTERBOARD UNDER	17.2	Enclosed	R4.0	Tiles
Bedroom 4	1 - TIMBER FLOOR PLASTERBOARD UNDER	14.2	Enclosed	R4.0	Tiles
Bathroom	1 - TIMBER FLOOR PLASTERBOARD UNDER	6.7	Enclosed	R4.0	Tiles
Ensuite	1 - TIMBER FLOOR PLASTERBOARD UNDER	5	Enclosed	R4.0	Tiles
Wir	1 - TIMBER FLOOR PLASTERBOARD UNDER	7	Enclosed	R4.0	Tiles
Master Bedroom	1 - TIMBER FLOOR PLASTERBOARD UNDER	20.7	Enclosed	R4.0	Tiles
Bedroom 2	1 - TIMBER FLOOR PLASTERBOARD UNDER	15.1	Enclosed	R4.0	Tiles

HOUSE

Void	No Floor	11.9	Enclosed	R4.0	No Floor
Passage	1 - TIMBER FLOOR PLASTERBOARD UNDER	8.3	Enclosed	R4.0	Tiles

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Butler's Pantry	1 - TIMBER FLOOR PLASTERBOARD UNDER	R4.0	No
Laundry	1 - TIMBER FLOOR PLASTERBOARD UNDER	R4.0	No
WC	1 - TIMBER FLOOR PLASTERBOARD UNDER	R4.0	No
Garage	Plasterboard	R0.0	No
Garage	1 - TIMBER FLOOR PLASTERBOARD UNDER	R4.0	No
Passage	1 - TIMBER FLOOR PLASTERBOARD UNDER	R4.0	No
Kitchen/Living/D- ining	1 - TIMBER FLOOR PLASTERBOARD UNDER	R4.0	No
Bedroom 2	Plasterboard	R6.5	Yes
Bedroom 4	Plasterboard	R6.5	Yes
Bathroom	Plasterboard	R6.5	Yes
Ensuite	Plasterboard	R6.5	Yes
Wir	Plasterboard	R6.5	Yes
Master Bedroom	Plasterboard	R6.5	Yes
Bedroom 2	Plasterboard	R6.5	Yes
Void	Plasterboard	R6.5	Yes
Passage	Plasterboard	R6.5	Yes

Ceiling penetrations*

Quantity	Туре	Height [mm]	Width [mm]	Sealed/unsealed
1	Downlights	0	0	Sealed
1	Downlights	0	0	Sealed
1	Downlights	0	0	Sealed
1	Exhaust Fans	200	200	Sealed
3	Downlights	0	0	Sealed
14	Downlights	0	0	Sealed
	1 1 1 1 3	1 Downlights 1 Downlights 1 Downlights 1 Exhaust Fans 3 Downlights	QuantityType[mm]1Downlights01Downlights01Downlights01Exhaust Fans2003Downlights0	Quantity Type [mm] [mm] 1 Downlights 0 0 1 Downlights 0 0 1 Downlights 0 0 1 Exhaust Fans 200 200 3 Downlights 0 0

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HOUSE	

Kitchen/Living/Dining	1	Exhaust Fans	50	50	Sealed
Bedroom 2	4	Downlights	0	0	Sealed
Bedroom 4	3	Downlights	0	0	Sealed
Bathroom	1	Downlights	0	0	Sealed
Ensuite	1	Downlights	0	0	Sealed
Ensuite	1	Exhaust Fans	50	50	Sealed
Wir	1	Downlights	0	0	Sealed
Master Bedroom	4	Downlights	0	0	Sealed
Bedroom 2	3	Downlights	0	0	Sealed
Void	2	Downlights	0	0	Sealed
Passage	2	Downlights	0	0	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Kitchen/Living/Dining	1	1800
Bedroom 2	1	1200
Bedroom 4	1	1200
Master Bedroom	1	1200
Bedroom 2	1	1200

Roof type

	Added insulatio	n		
Construction	[R-value]	Solar absorptance	Roof shade [colour]	
Cont:Attic-Continuous	0.0	0.5	Medium	
Cont:Attic-Continuous	1.0	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

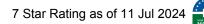
(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

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



Minimum efficiency/ Recommended performance capacity

No Whole of Home performance assessment conducted for this certificate.

Location

Hot water system

Appliance/ system type

Minimum

Fuel type

efficiency/ Hot Water CER

Hot Water CER Assessed daily

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

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.
Default windows EER Energy use Energy value Entrance door Exposure category – exposed to see the	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.
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.

7 Star Rating as of 11 Jul 2024

NATIONWIDE HOUSE INSITERIOR ICEM

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)