# Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. 59SVHZS1J9

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

### **Property**

Address 2, 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

## Accredited assessor

38.1

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



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	20.5	9.4		
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=59SVHZS1J9 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. It is not mandatory to complete this checklist.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Genuine certificate check	¥		<u> </u>	\ \overline{\ov	ŏ
Does this Certificate match the one available at the web address or QR code	T				
verification link on the front page?				Ш	
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	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	Construct stage		
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		·	_	<u>'</u>	
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	iducted)	
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					
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					
ighting 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
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# Window and glazed door type and performance

Default\* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
No Data Availat	ble					

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	
DOW-015-02 A	Aluminium Fixed Light Window DG 4/12/4EA	2.92	0.62	0.59	0.65	
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

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			Height	Width				Window shading
Location	Window ID	Window no.	[mm]	[mm]	Window type	Opening %	Orientation	device*
Butler's Pantry	BRD-001-13 A	W2A	750	1200	sliding	45.0	W	No
Laundry	BRD-030-09 A	Laundry	2400	820	casement	90.0	W	No
Passage	DOW-015-02 A	W1A	300	2000	fixed	0.0	S	No
Passage	DOW-015-02 A	SL	2400	800	fixed	0.0	S	No
Kitchen/Living/- Dining	BRD-041-02 A	W3A	750	2100	fixed	0.0	W	Yes
Kitchen/Living/- Dining	BRD-026-16 A	W5A	1800	1800	awning	30.0	E	Yes
Kitchen/Living/- Dining	BRD-026-16 A	W4A	1800	1800	awning	30.0	E	Yes
Kitchen/Living/- Dining	BRD-034-03 A	SD1A	2400	6000	sliding	45.0	N	No
Bedroom 2	BRD-001-13 A	W9A	750	2400	sliding	45.0	N	Yes
Bedroom 4	BRD-001-13 A	W10A	750	2400	sliding	45.0	N	Yes
Bathroom	BRD-001-13 A	W11A	2400	1200	sliding	45.0	E	Yes
Ensuite	BRD-026-16 A	W12A	1800	750	awning	45.0	E	Yes
Master Bedroom	BRD-001-13 A	SD2A	2100	2170	sliding	45.0	S	No
Bedroom 2	BRD-001-13 A	W8A	750	2400	sliding	45.0	W	Yes
Bedroom 2	BRD-026-16 A	W7A	1800	750	awning	45.0	S	Yes
Void	DOW-015-02 A	W1A	2100	2000	fixed	0.0	S	No
Void	DOW-015-02 A	W6A	750	3000	fixed	0.0	W	Yes
Void	DOW-015-02 A	W6A	750	3000	fixed	0.0	W	Yes

# Roof window\* type and performance value

Default\* roof windows

				Substitution tolerance 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

			Opening	Area	Width		Outdoor	Indoor
Location	Window ID	Window no.	%	[m²]	[mm]	Orientation	shade	shade
No Data Avail	able							

# 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	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	Glass fibre batt: R2.5 (R2.5)	Yes
2	FR5 - Brick Veneer	0.5	Medium		No
3	FR5 - Double Brick	0.5	Medium		No

### External wall schedule

		Height	Width		Horizontal shading feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Butler's Pantry	1	2700	1492	W	0	Yes
Laundry	1	2700	1590	W	0	Yes
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	Е	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	3750	Yes
Bedroom 2	1	2600	3876	W	0	Yes
Bedroom 2	1	2600	4663	N	399	Yes
Bedroom 4	1	2600	3870	E	0	Yes
Bedroom 4	1	2600	3905	N	400	Yes

Added insulation

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Bathroom	1	2600	2008	E	0	Yes
Ensuite	1	2600	1494	E	0	Yes
Wir	1	2600	2087	E	0	Yes
Master Bedroom	1	2600	1411	W	2446	Yes
Master Bedroom	1	2600	4130	S	1942	Yes
Master Bedroom	1	2600	460	S	0	Yes
Master Bedroom	1	2600	4262	Е	0	Yes
Bedroom 2	1	2600	3687	W	0	Yes
Bedroom 2	1	2600	1248	S	0	Yes
Void	1	2900	2734	S	3375	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	

Sub-floor

# Floor type

Location	Construction	Area [m²]	ventilation	[R-value]	Covering
Butler's Pantry	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	3.4	Enclosed	R0.0	Tiles
Laundry	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	4.3	Enclosed	R0.0	Tiles
WC	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	3.3	Enclosed	R0.0	Tiles
Garage	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	10.2	Enclosed	R0.0	none
Garage	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	27.9	Enclosed	R0.0	none
Passage	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	14.5	Enclosed	R0.0	Tiles
Kitchen/Living/D- ining	FR5 - 225mm waffle pod, 100mm concrete (R0.60)	55.4	Enclosed	R0.0	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

NATIONWIDE HOUSE

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
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\*

Location	Quantity	Туре	Height [mm]	Width [mm]	Sealed/unsealed
Butler's Pantry	1	Downlights	0	0	Sealed
Laundry	1	Downlights	0	0	Sealed

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WC	1	Downlights	0	0	Sealed
WC	1	Exhaust Fans	200	200	Sealed
Passage	3	Downlights	0	0	Sealed
Kitchen/Living/Dining	14	Downlights	0	0	Sealed
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
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 insulation		
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

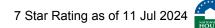
(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

Note: A flat assumption of 5W/m2 is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system

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

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No Whole of Home performance assessment conducted for this certificate.

Heating system

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

No Whole of Home performance assessment conducted for this certificate.

Hot water system

Minimum

efficiency/ Hot Water CER Assessed daily

Appliance/ system type Fuel type performance Zone Zone 3 STC load

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

Appliance/ system type

Minimum efficiency/
Performance capacity

Recommended performance

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 ventilate corridor in a Class 2 building.
Exposure category – exposed	Iterrain 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 (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof	

### **59SVHZS1J9 NatHERS Certificate**

7 Star Rating as of 11 Jul 2024

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