# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 3QX7JMS2X4

Generated on 15 Jan 2025 using FirstRate5: 5.5.5a (3.22)

## **Property**

Address 2, 668 Henry Lawson Drive,

East Hills, NSW, 2213

Lot/DP A/DP357768 NCC Class\* Class 1a

Floor/all Floors

Type New Home

## **Plans**

Main plan 42/2024 Rev A/18.12.2024

Prepared by Dezcon

## Construction and environment

Assessed floor area [m²]\* Exposure type
Conditioned\* 226.2 suburban

Unconditioned\* 18.7 NatHERS climate zone

Total 244.9 56 Mascot AMO

Garage 18.7



## **Accredited assessor**

Name Millard Perez
Business name Thermperform

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Accreditation No. 101510
Assessor Accrediting Organisation

ABSA

Declaration of interest No

# **NCC Requirements**

NCC provisions Volume 2 State/Territory variation Yes

### **National Construction Code (NCC) requirements**

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

# Thermal performance star rating



## Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	20.6	9.1
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=3QX7JMS2X4 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	Construc stage		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assesso	Consen	Builder	Consen	Occupa
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	'		<u>'</u>	<u> </u>	
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			_		
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						
Has the insulation been installed according to the NCC requirements?						
Building sealing	'					
Does the dwelling meet the NCC requirements for Building Sealing?						
Whole of Home performance check (not applicable if a Whole of Home performance check)	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. Additional requirements that must also be satisfied include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.						
Additional notes						
Number of ceiling penetrations have been assumed.						
Eaves/overhangs may not be directly opposite to wall (some eaves may be hori	-	fset).				
150mm has been added to projection of eaves to account for the Gutter & Fasc						
Default solar absorptance/colours have been applied where no details had been	n provided	at time of	assessme	ent.		

## Room schedule

Room	Zone Type	Area [m²]
Garage	garage	18.7
Guest Bed	bedroom	12.4
Kitch/Family/Dining/WIP/Bath/Laundry/Stairs	kitchen	95.8
Entry/Lounge	living	12.8
Master Bed/WIR/Ensuite	bedroom	37.3
Stair Void	doubleHeightVoid	8.5
Bed 4	bedroom	14.6
Bed 3	bedroom	14.9
Bed 2	bedroom	14.6
Passage/Nook/Bathroom	dayTime	26.7

# 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 Availa	able					

## 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-126-15 A	ESS Fixed Window External 52 Comm SG 6mmEntTech	3.82	0.61	0.58	0.64	
BRD-139-15 A	Essential Sliding Stacker Door SG 6mmEntTech	4.34	0.61	0.58	0.64	
BRD-043-06 A	SIG Louvre Window (125mm) SG 6EA	4.53	0.52	0.49	0.55	
BRD-125-10 A	ESS Fixed Window External 52 Comm DG 6mmET_12Ar_6mmET	2.03	0.51	0.48	0.54	
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	

# Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Guest Bed	BRD-001-13 A	09-24 ASW (W06)	900	2400	sliding	30.0	SE	No

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Guest Bed	BRD-126-15 A	27-09 AFW (W05)	2700	950	fixed	0.0	NE	No
Kitch/Family/Di- ning/WIP/Bath/L- aundry/Stairs	BRD-139-15 A	27-44 ASSD (D05)	2700	4400	sliding	67.5	SW	No
Kitch/Family/Di- ning/WIP/Bath/L- aundry/Stairs	BRD-043-06 A	27-10 ALV (W08)	2700	1050	louvre	90.0	SE	No
Kitch/Family/Di- ning/WIP/Bath/L- aundry/Stairs	BRD-125-10 A	27-31 AFW (W08)	2700	3150	fixed	0.0	SE	No
Kitch/Family/Di- ning/WIP/Bath/L- aundry/Stairs	BRD-001-13 A	06-14 ASW (W07)	600	1400	sliding	45.0	SE	No
Kitch/Family/Di- ning/WIP/Bath/L- aundry/Stairs	BRD-125-10 A	27-31 AFW (W04)	2700	3100	fixed	0.0	SE	No
Entry/Lounge	BRD-126-15 A	Entry Sidelight (W02)	2700	950	fixed	0.0	NE	No
Entry/Lounge	BRD-126-15 A	27-09 AFW (W03)	2700	950	fixed	0.0	SW	No
Master Bed/WIR/Ensuite	BRD-139-15 A	27-53 ASSD (D16)	2700	5293	sliding	67.5	NE	No
Bed 4	BRD-001-37 A	09-24 ASW (W20)	900	2400	sliding	10.0	SW	No
Bed 3	BRD-001-37 A	09-24 ASW (W19)	900	2400	sliding	10.0	SW	No
Bed 2	BRD-026-16 A	20-08 AAW (W18)	2000	800	awning	10.0	SE	No
Bed 2	BRD-026-16 A	20-08 AAW (W17)	2000	800	awning	10.0	SE	No
Bed 2	BRD-126-15 A	24-09 AFW (W16)	2400	950	fixed	0.0	NE	No
Passage/Nook/Ba-throom	BRD-126-15 A	24-31 AFW (W26)	2400	3100	fixed	0.0	SE	No

# Roof window\* type and performance value

Default\* roof windows

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

Custom\* roof windows

Window ID				Substitution tolerance ranges		
	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 Available

## Skylight\* type and performance

Skylight ID Skylight description Skylight shaft reflectance

No Data Available

# Skylight\* schedule

Skylight shaft Area Orient- Outdoor

Location Skylight ID Skylight No. length [mm] [m²] ation shade Diffuser

No Data Available

## External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage	2400	3000	0.0	NE
Entry/Lounge	2700	1200	100.0	NE

# External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	[R-value]	Reflective wall wrap*
1	ST - Rendered Brick Veneer Garage	0.3	Light		No
2	ST - Rendered Brick Cavity_Garage	0.3	Light		No
3	TPM - Rendered Parti Wall Brick Cavity	0.5	Medium		No
4	ST - Rendered Brick Veneer	0.3	Light	Glass fibre batt: R2.5 (R2.5)	No

## External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Garage	1	3100	999	SE	0	Yes
Garage	2	3100	3400	NE	1900	Yes
Garage	3	3100	5499	NW	0	No
Guest Bed	4	3000	3599	SE	0	Yes
Guest Bed	4	3000	1647	NE	0	Yes
Kitch/Family/Dining/WIP/B- ath/Laundry/Stairs	3	3000	18911	NW	0	No
Kitch/Family/Dining/WIP/B- ath/Laundry/Stairs	4	3000	5491	SW	4000	Yes

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Kitch/Family/Dining/WIP/B-ath/Laundry/Stairs	4	3000	5000	SE	0	Yes
Kitch/Family/Dining/WIP/B-ath/Laundry/Stairs	4	3000	847	SW	0	Yes
Kitch/Family/Dining/WIP/B-ath/Laundry/Stairs	4	3000	6190	SE	0	Yes
Kitch/Family/Dining/WIP/B-ath/Laundry/Stairs	4	3000	3941	SE	0	Yes
Entry/Lounge	4	3000	2845	NE	0	Yes
Entry/Lounge	4	3000	1640	SW	0	Yes
Entry/Lounge	4	3000	4500	SE	0	Yes
Master Bed/WIR/Ensuite	4	2700	5889	SE	0	No
Master Bed/WIR/Ensuite	4	2700	6334	NE	1400	Yes
Master Bed/WIR/Ensuite	3	2700	5889	NW	0	No
Master Bed/WIR/Ensuite	4	2700	1647	SW	3620	Yes
Stair Void	3	2700	2650	NW	0	No
Bed 4	3	2700	4941	NW	0	No
Bed 4	4	2700	3095	SW	0	No
Bed 3	4	2700	3150	SW	0	No
Bed 3	4	2700	4941	SE	460	No
Bed 2	4	2700	4852	SE	450	No
Bed 2	4	2700	1647	NE	3621	Yes
Passage/Nook/Bathroom	3	2700	6145	NW	0	No
Passage/Nook/Bathroom	4	2700	3942	SE	450	Yes

# Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	110.4	
2	ST - Internal Plasterboard Stud Wall_Garage	23.7	Glass fibre batt: R2.5 (R2.5)

# Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulat [R-value]	ion Covering
Garage	TPM - CSOG: Slab on Ground - Garage	18.7	Enclosed	R0.0	none
Guest Bed	TPM - CSOG: Slab on Ground	12.4	Enclosed	R0.0	Tiles
Kitch/Family/Din- ing/WIP/Bath/Lau- ndry/Stairs	TPM - CSOG: Slab on Ground	26.2	Enclosed	R0.0	Tiles
Kitch/Family/Din- ing/WIP/Bath/Lau- ndry/Stairs	TPM - CSOG: Slab on Ground	69.6	Enclosed	R0.0	Tiles

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Entry/Lounge	TPM - CSOG: Slab on Ground	12.8	Enclosed	R0.0	Tiles
Master Bed/WIR/Ensuite	FR5 - 300mm concrete slab Lined	3.7	Elevated	R0.0	Tiles
Master Bed/WIR/Ensuite	FR5 - 300mm concrete slab Lined	33.6	Enclosed	R0.0	Tiles
Stair Void	No Floor	8.5	Enclosed	R0.0	No Floor
Bed 4	FR5 - 300mm concrete slab Lined	14.6	Enclosed	R0.0	Tiles
Bed 3	FR5 - 300mm concrete slab Lined	14.9	Enclosed	R0.0	Tiles
Bed 2	FR5 - 300mm concrete slab Lined	14.6	Enclosed	R0.0	Tiles
Passage/Nook/Bat- hroom	FR5 - 300mm concrete slab Lined	26.7	Enclosed	R0.0	Tiles

# Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Garage	FR5 - 300mm concrete slab Lined	R0.0	No
Guest Bed	FR5 - 300mm concrete slab Lined	R0.0	No
Kitch/Family/Din- ing/WIP/Bath/Lau- ndry/Stairs	Plasterboard	R6.3	No
Kitch/Family/Din- ing/WIP/Bath/Lau- ndry/Stairs	FR5 - 300mm concrete slab Lined	R0.0	No
Entry/Lounge	FR5 - 300mm concrete slab Lined	R0.0	No
Master Bed/WIR/Ensuite	Plasterboard	R6.3	No
Master Bed/WIR/Ensuite	Plasterboard	R6.3	No
Stair Void	Plasterboard	R6.3	No
Bed 4	Plasterboard	R6.3	No
Bed 3	Plasterboard	R6.3	No
Bed 2	Plasterboard	R6.3	No
Passage/Nook/Bat- hroom	Plasterboard	R6.3	No

# Ceiling penetrations\*

Location	Quantity	Туре	Height [mm]	Width [mm]	Sealed/unsealed
Kitch/Family/Dining/WIP/B-ath/Laundry/Stairs	10	Downlights	90	90	Sealed
Kitch/Family/Dining/WIP/B-ath/Laundry/Stairs	1	Exhaust Fans	250	250	Sealed
Kitch/Family/Dining/WIP/B-ath/Laundry/Stairs	2	Exhaust Fans	250	250	Unsealed

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Master Bed/WIR/Ensuite	14	Downlights	90	90	Sealed
Master Bed/WIR/Ensuite	1	Exhaust Fans	250	250	Unsealed
Stair Void	2	Downlights	90	90	Sealed
Bed 4	5	Downlights	90	90	Sealed
Bed 3	5	Downlights	90	90	Sealed
Bed 2	5	Downlights	90	90	Sealed
Passage/Nook/Bathroom	1	Exhaust Fans	250	250	Unsealed
Passage/Nook/Bathroom	10	Downlights	90	90	Sealed

# Ceiling fans

Location	Quantity	Diameter [mm]
Kitch/Family/Dining/WIP/Bath/Laundry- /Stairs	1	1400

# Roof type

	Added insulation	n		
Construction	[R-value]	Solar absorptance	Roof shade [colour]	
Framed:Flat - Flat Framed (Metal Deck)	0.0	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 perform	ance assessment co	nducted for this certific	ate.	

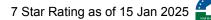
#### Heating system

			Minimum efficiency/	Recommended	
Appliance/ system type	Location	Fuel type	performance	capacity	
No Whole of Home performa	ance assessment co	onducted for this certific	ate.		

## Hot water system

		Minimum			
		efficiency/	<b>Hot Water CER</b>		Assessed daily
Appliance/ system type	Fuel type	performance	Zone	Zone 3 STC	load
No Whole of Home perform	ance assessment	conducted for this certi	ficate		

## Pool/spa equipment



Minimum efficiency/ Recommended performance capacity

Appliance/ system type Fuel type performance ca

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 15 Jan 2025

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)