# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. #000000000-00

#### Generated on [date] using [software and version]

[other boilerplate text other boilerplate text other boilerplate text other boilerplate text other boilerplate text]

## Property

Address

Lot/DP NCC class\* Floor/all Floors Type [00 Street, Suburb, State/Territory, Postcode] [number] [number] [dwelling entrance floor] of [total no. of floors] floors [new/renovation/existing]

# Plans

Main plan Prepared by [plan number, version & date] [name of preparer of plans]

# **Construction and environment**

Assessed floor area [m²]\*Conditioned\*000.0Unconditioned\*0.0Total0.0Garage0.0

Exposure type [exposure] NatHERS climate zone [number, town/suburb]



# ccredited assessor

Name	[
Business name	[
Email	A
Phone	I I I
Accreditation No.	

[assessor name] [business name] [email address] [00 0000 0000] [0000 000 0000]

Assessor Accrediting Organisation [name of Assessor Accrediting Organisation] Declaration of interest [declaration]

# **NCC Requirements**

BCA provisions State/Territory variation [Volume 1/Volume 2] [Yes/No]

### 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 <u>www.abcb.gov.au</u>.

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



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Thermal performance star rating



The more stars

107.9 MJ/m<sup>2</sup> Predicted annual energy load for

heating and cooling based on standard occupancy assumptions.

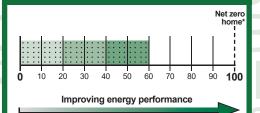
For more information on your dwelling's rating see: www.nathers.gov.au

### Thermal performance [MJ/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling					
Modelled	0000.0	0000.0					
Load limits	0.0000	0000.0					
Features determining load limits							
Floor type		[Type]					

(lowest conditioned area) NCC climate zone 1 or 2 [Y/N/NA] Outdoor living area [Y/N/NA] Outdoor living area ceiling fan [Y/N/NA]

# Whole of Home performance rating 60 out of 100



# Verification

To verify this certificate, scan the QR code or visit [Hstar-dev. azurewebsites.net/QR/ Generate?p=MlalcPjqJ.] When using either link, ensure you are visiting hstar-dev.azurewebsites.net



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[#000000000-00] NatHERS Certificate

0.0 Star rating and 00 Whole of Home rating as of [Date]



#### 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

Your Whole of Home energy use\* rating excluding onsite renewable energy generation is **[00] out of 100**.

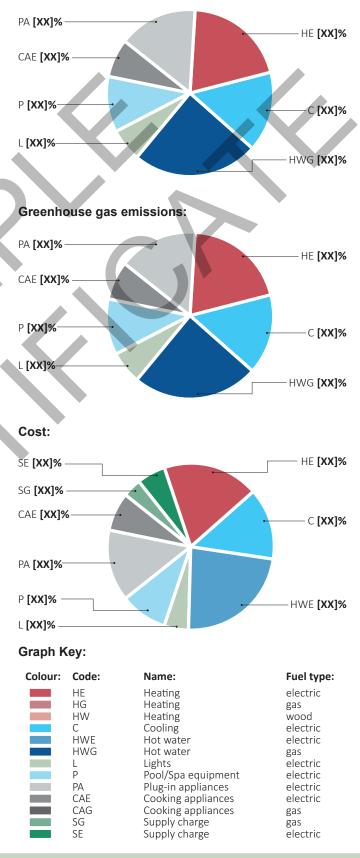
This home's annual greenhouse gas emissions: [0000]kg CO2e (with solar) [0000]kg CO2e (without solar)

Predicted annual electricity use: [0000] kWh Exported to the grid: [00]% Used by the home: [00]%

# 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:



\* Refer to glossary.

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#### [#00000000-00] NatHERS Certificate 0.0 Star rating and 00 Whole of Home rating as of [Date]



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.	Assessor checked	Consent authority/ surveyor checked	hecked	Consent authority/ surveyor checked	cy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assessor	Consent surveyor	Builder checked	Consent surveyor	Occupancy/other
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 <i>Window and glazed door</i> <i>schedule</i> ' and <i>'Roof window schedule'</i> 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?		D			
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?					
Floor		1			
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Floor type</i> ' 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		1		1	
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?					
<b>Roof</b> Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the ' <i>Roof type</i> ' 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?					

Generated on [date] using [software] for [address]



[#000000000-00] NatHERS Certificate 0.0 Star rating and 00 Whole of	of Home ra	<b>ating</b> as o	f [Date]		NATIONWIDE		
	Approval	stage	Construc stage	tion			
Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other		
Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)			
Thermal bridging							
Does the dwelling meet the NCC requirement for thermal bridging?							
Insulation installation method							
Has the insulation been installed according to the NCC requirements?							
Building sealing							
Does the dwelling meet the NCC requirements for Building Sealing?							
Whole of Home performance check (not applicable if a Whole of Home performance check (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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 NatHERS assessment)							
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	1	1	1				
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?							
Other NCC requirements		I	1				
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							

\* Refer to glossary. Generated on [date] using [software] for [address] Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

0.0 Star rating and 00 Whole of Home rating as of [Date]



# Room schedule

Room		Zone Type		Area	[m²]
Vindow a	nd glazed doo	<b>r</b> type and pe	erformance		
Default windows	S*				
Window ID	Window description	Maximum U-value*	SHGC*	Substitution SHGC lower limit	tolerance ranges SHGC upper limit
Custom window	/S*			Substitution	tolerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
Vindow a	and glazed do	oor schedule			
v	And glazed do Window Window D no.	Height V	Vidth Window mm] type	Opening % Orie	Window shading ntation device*
V Location I Roof wind	Window Window D no.	Height V [mm] [	Vidth Window mm] type		shading
Location I Roof wind Default* roof wir	Window Window D no.	Height V [mm] [	Vidth Window mm] type	% Orie	shading
N Location I Roof wind Default* roof win Window	Window D no.	Height V [mm] [	Vidth Window mm] type	% Orie	shading ntation device*
V Location I	Window D no. Now* type and p ndows Window description	Height V [mm] [ Derformance Maximum	Vidth Window mm] type	% Oriel	shading ntation device*

\* Refer to glossary.

Generated on [date] using [software] for [address]



# Roof window\* schedule

Location	Window ID	Window No.	Opening %	Height [mm]	Width [mm]	Orientation	Outdo shade	
Skylight	* type and	d performa	ance					
Skylight ID			Skylight desc	ription		Skylight sha	ft reflect	tance
						×		· ·
Skylight	* schedul	e						
	Skylight	Skylight	Skylight shaft len	igth Area			utdoor	
Location	ID	No.	[mm]	[m²]		prientation sh	ade	Diffuser
Location	U							
Location								
Location								
	l door sch							
	l door sch		Width [mm		ng %	Or	ientatio	n
Externa	l door sch	nedule			ng %	Or	ientatio	n
Externa	l door sch	nedule			ng %	Or	ientatio	n
Externa Location	l door sch	nedule ht [mm]			ng %	Or	ientatio	n
Externa Location Externa	l door sch Heigh	nedule ht [mm]				Or		n
Externa Location	I door sch Heigh	nedule ht [mm]	Width [mm	n] Openin Wall sl	hade			
Externa Location Externa Wall	I door sch Heigh I wall type Wall	nedule ht [mm]	Width [mm	n] Openin Wall sl	hade	Bulk insulation		Reflective
Externa Location Externa Wall	I door sch Heigh I wall type Wall	nedule ht [mm]	Width [mm	n] Openin Wall sl	hade	Bulk insulation		Reflective
Externa Location Externa Wall ID	I door sch Heigh I wall type Wall	edule at [mm]	Width [mm	n] Openin Wall sl	hade	Bulk insulation		Reflective
Externa Location Externa Wall ID	I door sch Heigh I wall type Wall type	edule at [mm]	Width [mm Solar absorptan	n] Openin Wall si ce [colou	hade	Bulk insulation	on	Reflective

\* Refer to glossary.

Generated on [date] using [software] for [address]



# Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation		
Floor type					
Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Ceiling type			$\overline{\langle}$		$\sim$
Location	Construction material/type	Bulk insulation [may include et	R-value dge batt values]	Reflective wrap*	
Ceiling pene	trations*				
Location	Quantity	Туре	Diameter [mm <sup>2</sup> ]	Sealed/unsealed	
Ceiling fans	CV		$\sim$		
Location	Quantity		Diameter [mm]		
Roof type			*		
Construction	Added insulation [R-	value]	Solar absorptance	Roof sha	de [colour]

# Thermal bridging schedule for steel frame elements

	Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]
--	------------------	--	--------------------	-----------------------------	-------------------------------

\* Refer to glossary.

Generated on [date] using [software] for [address]



### Appliance schedule

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

Note: A flat assumption of 5W/m<sup>2</sup> is used for lighting, therefore lighting is not included in the appliance schedule.

#### Cooling system

Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
Ducted refrigerative air conditioning (heat pump)	Kitchen/Dining/Living	Electric	00	00
Ducted refrigerative air conditioning (heat pump)	Bedroom 1	Electric	00	00
Ducted refrigerative air conditioning (heat pump)	Bedroom 2	Electric	00	00
Ducted refrigerative air conditioning (heat pump)	Bedroom 3	Electric	00	00

#### Heating system

Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
Ducted reverse cycle air-conditioner (heat pump)	Kitchen/Dining/Living	Electric	00	00
Ducted reverse cycle air-conditioner (heat pump)	Bedroom 1	Electric	00	00
Ducted reverse cycle air-conditioner (heat pump)	Bedroom 2	Electric	00	00
Ducted reverse cycle air-conditioner (heat pump)	Bedroom 3	Electric	00	00

#### Hot water system

		Minimum	Substitution to	lerance ranges	
Appliance/ system type	Fuel type	efficiency/ performance	Zone 3 STC lower limit	Zone 3 STC upper limit	Assessed daily load
Gas instantaneous	Gas	0 star	N/A		120L
Gas boosted solar thermal	Solar-gas	30 STCs Zone 4	22	31 (Medium)	120L

#### Pool/spa equipment

Appliance/ system type	Fuel type	Minimum efficiency/ performance	Recommended capacity
Single speed pressure cleaner with main filtration pump	Electric	00	00

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### **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
Solar PV	NW	0 kW

### **Battery** schedule

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

System type	Size [battery storage capacity]
Lithium-ion	0 kWh



### **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.
COP	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure	see exposure categories below.
Exposure category – exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
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 lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
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)

\* Refer to glossary.

Generated on [date] using [software] for [address]

# Nationwide House Energy Rating Scheme® NatHERS® Certificate No. #000000000-00

#### Generated on [date] using [software and version]

[other boilerplate text other boilerplate text other boilerplate text other boilerplate text]

## Property

Address

Lot/DP NCC class\* Floor/all Floors Type [00 Street, Suburb, State/Territory, Postcode] [number] [number] [dwelling entrance floor] of [total no. of floors] floors [new/renovation/existing]

# Plans

Main plan Prepared by [plan number, version & date] [name of preparer of plans]

# **Construction and environment**

Assessed floor area [m²]\*Conditioned\*000.0Unconditioned\*0.0Total0.0Garage0.0

Exposure type [exposure] NatHERS climate zone [number, town/suburb]



# ccredited assessor

Name	
Business name	
Email	
Phone	
Accreditation No.	

[assessor name] [business name] [email address] [00 0000 0000] [0000 000 000]

Assessor Accrediting Organisation [name of Assessor Accrediting Organisation] Declaration of interest [declaration]

# **NCC Requirements**

BCA provisions State/Territory variation [Volume 1/Volume 2] [Yes/No]

### 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 <u>www.abcb.gov.au</u>.

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



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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/m<sup>2</sup>] Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	0000.0	0.0000
Load limits	0.0000	0000.0
$H \cap O$	$\mathbf{\Omega} \mathbf{\Omega}$	$\square \square$

### Features determining load limits

Floor type	[Type]
(lowest conditioned area)	
NCC climate zone 1 or 2	[Y/N/NA]
Outdoor living area	[Y/N/NA]
Outdoor living area ceiling fan	[Y/N/NA]

# 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 [Hstar-dev. azurewebsites.net/QR/ Generate?p=MlalcPjqJ.] When using either link, ensure you are visiting hstar-dev.azurewebsites.net



without solar.

Energy use:

impact by appliance

Greenhouse gas emissions:

Predicted Whole of Home annual

Shows the contribution each appliance has on the home's

No Whole

of Home

performance

assessment

conducted for this certificate.

No Whole

of Home

performance

assessment

conducted for this

certificate.

annual energy use, greenhouse gas emissions and cost



### 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.

Cost:

No Whole of Home performance assessment conducted for this certificate.

\* Refer to glossary.

Generated on [date] using [software] for [address]

#### 0.0 Star rating and 00 Whole of Home rating as of [Date]



Certificate check	Approval	stage	Construc stage	tion	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked. Note: The boxes indicate when and who should check each item.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
It is not mandatory to complete this checklist.	Asse	Cons surve	Build	Cons surve	Occu
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check					
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in <i>Window and glazed door</i> <i>schedule'</i> and <i>'Roof window schedule'</i> tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the <i>Window and glazed door type and performance'</i> and <i>'Roof window type and performance'</i> 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?		Ð			
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 ' <i>Floor type</i> ' 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 <i>'Roof type'</i> 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?					
fer to glossary.					

Generated on [date] using [software] for [address]



[#000000000-00] NatHERS Certificate 0.0 Star rating and 00 Whole of	of Home ra	<b>ating</b> as o	f [Date]		NATIONWIDE
	Approval	stage	Construc stage	tion	
Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method			1		
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 per	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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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)	1		
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 <i>'Additional notes'</i> table below?					
Other NCC requirements	1	1	I		
Note: This Certificate only covers the energy efficiency requirements in the NCC. A include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.					
Additional notes					

\* Refer to glossary. Generated on [date] using [software] for [address]



# Room schedule

Room		Zone Type		Area [m²]		
Window a	nd glazed doo	r tune and n	erformence			
	-		enomance			
Default window	S*			Substitution to	plerance ranges	
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
			$\sim$			
Custom window				Substitution to	olerance ranges	
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
Vindow a	and glazed do	oor schedule			Window	
١	And glazed do Window D Nindow No.	Height V	Vidth Window mm] type	Opening % Orien	Window shading tation device*	
Location	Window D no.	Height V [mm] [	Vidth Window mm] type		shading	
Location I Roof wind	Window D no.	Height V [mm] [	Vidth Window mm] type	% Orien	shading	
Location I Roof wind Default* roof wi Nindow	Window D no.	Height V [mm] [	Vidth Window mm] type	% Orien	shading tation device*	
Location I	Window D no. Now* type and p ndows Window description	Height V [mm] [	Vidth Window mm] type	% Orien	shading tation device*	

\* Refer to glossary.

Generated on [date] using [software] for [address]



# Roof window\* schedule

Location	Window ID	Window No.			(idth nm] (	Orientation	Outdo shade	
Skylight	* type and	l performa	nce		$\bigcirc$			$\sim$
Skylight ID		;	Skylight descri	otion		Skylight sha	ft reflect	ance
Skylight	* schedule	9						
	Skylight ID	Skylight No.	Skylight shaft leng [mm]	th Area [m²]	Orion		utdoor	Diffuser
location						itution 3n	laac	Dilluser
Location	U							
Location								
	door sch							
External	door sch		Width [mm]	Opening	%	Or	ientatior	1
External	door sch	edule		$\overline{\langle}$	%	Or	ientatior	1
External	door sch Heigh	edule t [mm]		$\overline{\langle}$	%	Or	ientatior	1
External Location External	door sch Heigh wall type	edule t [mm]	Width [mm]	$\overline{\langle}$		Or Bulk insulatio		
External Location External Wall	door sch Heigh	edule t [mm]		Opening of the second s	le			n Reflective wall wrap*
External Location External Wall	door sch Heigh wall type Wall	edule t [mm]	Width [mm] Solar	Opening of the second s	le	Bulk insulatio		Reflective
Location External Wall ID	door sch Heigh wall type Wall	edule t [mm]	Width [mm] Solar	Opening of the second s	le	Bulk insulatio		Reflective
External Location External Wall ID	door sch Heigh wall type Wall type	edule t [mm]	Width [mm] Solar absorptance	Opening of the second s	le	Bulk insulatio	on	Reflective

\* Refer to glossary.

Generated on [date] using [software] for [address]



# Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation		
Floor type					
Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value)	Covering
Ceiling type					$\sim$
Location	Construction material/type	Bulk insulat (may includ	ion R-value e edge batt values)	Reflective wrap*	
Ceiling pene	trations*			$\sim V$	
Location	Quantity	Туре	Diameter [mm <sup>2</sup> ]	Sealed/unsealed	
Ceiling fans					
Location	Quantity		Diameter [mm]		
Roof type		4			
Construction	Added insulation [	[R-value]	Solar absorptance	e Roof sh	ade [colour]

# Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]

\* Refer to glossary.

Generated on [date] using [software] for [address]



### Appliance schedule

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

Note: A flat assumption of 5W/m<sup>2</sup> is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system					
Appliance/ system type	Locat	ion	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Whole of Home perform	nance assessmen	t conducted for	this certificate.		
Heating system					
Appliance/ system type	Locat	ion	Fuel type	Minimum efficiency/ performance	Recommended
				performance	capacity
No Whole of Home perform	nance assessmen	it conducted for	this certificate.		
Hot water system					
		Minimum	Substitution t	olerance ranges	
Appliance/ system type	Fuel type	efficiency/ performance	Zone 3 STC lower limit	Zone 3 STC upper limit	Assessed daily load
No Whole of Home perform	nance assessmen	t conducted for	this certificate.		
Pool/spa equipment					
Appliance/ system type	7	Fuel type		Minimum efficiency/ performance	Recommended capacity
No Whole of Home perform	nance assessmen	t conducted for	this certificate.		

Generated on [date] using [software] for [address]



### **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.
 Image: Constraint of the second se

### **Battery** schedule

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

#### System type

No Whole of Home performance assessment conducted for this certificate.

Size [battery storage capacity]



### **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 wit 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.
COP	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure	see exposure categories below.
Exposure category – exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
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 lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
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)

\* Refer to glossary.

Generated on [date] using [software] for [address]

# Residential energy rating report Non-accredited No. #000000000-00

### Generated on [date] using [software and version]

This report was created using NatHERS accredited software but the non-accredited assessor (rater) is not accredited under NatHERS and this report is not accredited as being compliant with NatHERS. Reliance on this report is accordingly at your own risk.

imate zone

# Property

Address	[00 Street,
	Suburb, State/Territory, Postcode]
Lot/DP	[number]
NCC class*	[number]
Floor/all Floors	[dwelling entrance floor] of [total no. of floors] floors
Туре	[new/renovation/existing]

# Plans

Main plan [plan number, version & date] [name of preparer of plans] Prepared by

# Construction and environment

Assessed floor a	irea [m²]*	Exposure type
Conditioned*	000.0	[exposure]
Unconditioned*	0.0	NatHERS climate zon
Total	0.0	[number, town/suburb]
Garage	0.0	

# Rater\*\*

Name	[assessor name]
Business name	[business name]
Email	[email address]
Phone	[000 0000 0000]
Declaration of interest	[declaration]

# NCC Requirements

**BCA** provisions State/Territory variation [Volume 1/Volume 2] [Yes/No]

### 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



### star rating

# [XX.X] MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

# Thermal performance [MJ/m<sup>2</sup>]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	0000.0	0000.0
Load limits	0000.0	0000.0

### Features determining load limits

Floor type	[Type]
(lowest conditioned area)	
NCC climate zone 1 or 2	[Y/N/NA]
Outdoor living area	[Y/N/NA]
Outdoor living area ceiling fan	[Y/N/NA]

Whole of Home performance rating

# 50 out of 100

# Verification

To verify this report, scan the QR code or visit [Hstar-dev. azurewebsites.net/QR/ Generate?p=MlalcPjqJ.] When using either link,

ensure you are visiting hstar-dev.azurewebsites.net



Page 1 of 10

Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address]

## 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 written rating on this Report) 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 Report.

# 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

Your Whole of Home energy use\* rating excluding onsite renewable energy generation is **[00] out of 100**.

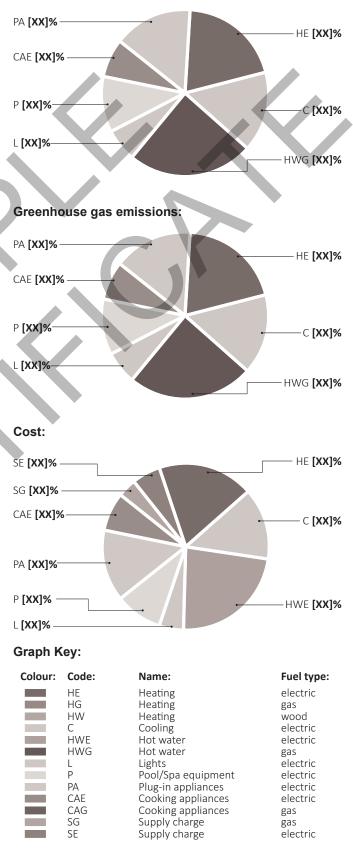
#### This home's annual greenhouse gas emissions: [0000]kg CO2e (with solar) [0000]kg CO2e (without solar)

Predicted annual electricity use: [0000] kWh Exported to the grid: [00]% Used by the home: [00]% 0.0 Star rating and 00 Whole of Home rating as of [Date]

# 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:



\* Refer to glossary. \*\* Refer explanatory notes.

Generated on [date] using [software] for [address]

#### [#00000000-00] Non-accredited report

#### 0.0 Star rating and 00 Whole of Home rating as of [Date]

	Approval	stage	Construc stage	tion	
Report check The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole report is checked.	Rater 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.	Rater (	Conse survey	Builde	Conse survey	Occup
Genuine report check					
Does this report match the one available at the web address or QR code verification link on the front page?					
Does the report number on the stamped plans match the number on this Report?					
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 <i>Window and glazed door</i> <i>schedule</i> ' and <i>'Roof window schedule</i> ' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the <i>Window and glazed door type and performance</i> and <i>'Roof window type and performance</i> 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 Report?		Ð			
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Report?					
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 Report?					
installed match what is shown in the ' <i>Floor type</i> ' table on this Report? Ceiling penetrations*					
<b>Ceiling penetrations*</b> 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					
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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 Report?         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 Report?         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 Report?					
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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 Report?         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 Report?         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 Report?         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 Report.					
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\* Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address]

#### [#00000000-00] Non-accredited report

### 0.0 Star rating and 00 Whole of Home rating as of [Date]

•	Approval	stago	Construc	tion	L .
	Approva	Stage	stage		
Report check Continued	Rater 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 perf	ormance a	ssessmen	t is not con	ducted)	
Appliances			Y		
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 Report?					
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 ' <i>Appliance schedule</i> ' on this Report?					
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 ' <i>Appliance schedule</i> ' on this Report?					
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Report?					
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 Report?					
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	1				
Have provisional values* been used in the assessment and, if so, are they noted in <i>'Additional notes'</i> table below?					
Other NCC requirements					
Note: This Report only covers the energy efficiency requirements in the NCC. Additi include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.					
Additional notes					

\* Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address]

#### [#00000000-00] Non-accredited report

0.0 Star rating and 00 Whole of Home rating as of [Date]

# Room schedule

Nindow and					
	glazed doo	<b>r</b> type and pe	erformance		
Default windows*					
Nindow ID	Window	Maximum		Substitution to SHGC lower limit	
Vindow ID	description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit
ustom windows*					
	Window	Maximum		Substitution to	lerance ranges
Vindow ID	description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit
Vindow and	d glazed do	oor schedule			
Winde		Height V	/idth Window mm] type	Opening % Orient	Window shading ation device*
Windo ocation ID	low Window no.	Height V [mm] [r	/idth Window nm] type		shading
Wind ocation ID	low Window no. I* type and p	Height V [mm] [r	/idth Window nm] type		shading
Window Ocation ID Roof window Default* roof window	low Window no. I* type and p vs Window	Height V [mm] [r Derformance Maximum	Vidth Window mm] type	% Orient	shading ation device*
Window Ocation ID Roof window Default* roof window	low Window no. I* type and p	Height V [mm] [r	/idth Window nm] type	% Orient	shading ation device*
	low Window no. /* type and p //s Window description	Height V [mm] [r Derformance Maximum	Vidth Window mm] type	% Orient	shading ation device*

\* Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address] Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

#### [#00000000-00] Non-accredited report

0.0 Star rating and 00 Whole of Home rating as of [Date]

Roof wir	ndow* scl	hedule						
Location	Window ID	Window No.	Opening %	Height [mm]	Width [mm]	Orientation	Outdoor shade	Indoor shade
\$kylight <sup>*</sup>	* type and	d performa	ance					
Skylight ID			Skylight desc	cription		Skylight shaf	t reflectanc	e
				$\mathbf{O}$				
Skylight	* schedul	е	Skylight			C		
Location	Skylight ID	Skylight No.	shaft ler [mm]			Out Orientation sha	tdoor ade	Diffuser
								2
External	door sch	nedule			$\langle$			
		nedule ht [mm]	Width [mn	n] Oper	ning %	Orie	entation	
Location		nt [mm]	Width [mn	n] Oper	ning %	Orio		
Location External Wall	Heigh wall type Wall	nt [mm]	Solar	Wall	shade	Bulk insulatio	entation	lective
Location External Wall	Heigh wall type	nt [mm]	2	Wall	shade		entation	
Location External Wall ID	Heigh wall type Wall	nt [mm]	Solar	Wall	shade	Bulk insulatio	entation on Ref wal	lective

\* Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address]

### [#00000000-00] Non-accredited report

0.0 Star rating and 00 Whole of Home rating as of [Date]

nternal wall					
Wall ID	Wall type	Area [m²]	Bulk insulation		
Floor type					
Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Ceiling type					$< \times$
Location	Construction material/type		tion R-value de edge batt values)	Reflective wrap*	
Ceiling pene	trations*				
Location	Quantity	Туре	Diameter [mm <sup>2</sup> ]	Sealed/unsealed	
Ceiling fans	CX			*	
Location	Quantity		Diameter [mm]		
		$\cap$			
Roof type					
Construction	Added insulation [R	value]	Solar absorptance	e Roof sha	ade [colour]
		-			
Thermal brid	lging schedule	for steel f	rame elements		
					Ther

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	break [R-value]
------------------	--	--------------------	-----------------------------	--------------------

\* Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address]

### [#00000000-00] Non-accredited report

### Appliance schedule

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

Note: A flat assumption of 5W/m<sup>2</sup> is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system

				Minimum efficiency/	Recommended
Appliance/ system type		ocation	Fuel type	performance	capacity
Ducted refrigerative air condition (heat pump)	oning k	Kitchen/Dining/Living	Electric	00	00
Ducted refrigerative air condition (heat pump)	oning E	Bedroom 1	Electric	00	00
Ducted refrigerative air condition (heat pump)	oning E	Bedroom 2	Electric	00	00
Ducted refrigerative air condition (heat pump)	oning E	Bedroom 3	Electric	00	00
Heating system				5	
Appliance/ system type	L	ocation	Fuel type	Minimum efficiency/ performance	Recommended capacity
Ducted reverse cycle air-condi (heat pump)	tioner k	Kitchen/Dining/Living	Electric	00	00
Ducted reverse cycle air-condi (heat pump)	tioner E	Bedroom 1	Electric	00	00
Ducted reverse cycle air-condi (heat pump)	tioner E	Bedroom 2	Electric	00	00
Ducted reverse cycle air-condi (heat pump)	tioner E	Bedroom 3	Electric	00	00
Hot water system		$\sim$			
		Minimum	Substitution t	olerance ranges	
Appliance/ system type	Fuel type	efficiency/	Zone 3 STC lower limit	Zone 3 STC upper limit	Assessed daily load
Gas instantaneous	Gas	0 star	N/A		120L
Gas boosted solar thermal	Solar-gas	30 STCs Zone 4	. 22	31 (Medium)	120L
Pool/spa equipment	Ĵ				
Appliance/ system type		Fuel type		Minimum efficiency/ performance	Recommended capacity

Appliance/ system typeFuel typeefficiency/<br/>performanceRecommended<br/>capacitySingle speed pressure cleaner with main filtration<br/>pumpElectric0000

\* Refer to glossary. \*\* Refer explanatory notes.

Generated on [date] using [software] for [address]

0.0 Star rating and 00 Whole of Home rating as of [Date]

### **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
Solar PV	NW	0 kW

### **Battery** schedule

System type	Size [battery storage capacity]
_ithium-ion	0 kWh

#### [#00000000-00] Non-accredited report

#### 0.0 Star rating and 00 Whole of Home rating as of [Date]

## **Explanatory notes**

#### About this report

This report is non-accredited and has been prepared by a non-accredited assessor (Rater\*\*). This is distinct from a NatHERS Certificate.

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.

#### Rater

Non-accredited assessors (Raters) are not required to have any formal qualifications, insurance, ongoing professional development or quality assurance checks on their ratings. This is distinct from NatHERS accredited assessors who are required to have qualifications, ongoing professional development and have

quality assurance checks on their ratings.

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.

Any questions or concerns about this report should be directed to the rater in the first instance. If the rater is unable to address these questions or concerns, the state or territory building code authority should be contacted.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the rater. It is the rater's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce this report.

The predicted annual energy load, cost and greenhouse gas emissions are not part of a non-accredited report. In a NatHERS Certificate these 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 rater who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the rater using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the rater.

# 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 wit 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.
COP	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure	see exposure categories below.
Exposure category – exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
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 lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
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)

\* Refer to glossary. \*\* Refer explanatory notes.

Generated on [date] using [software] for [address]

# Residential energy rating report Non-accredited No. #000000000-00

### Generated on [date] using [software and version]

This report was created using NatHERS accredited software but the non-accredited assessor (rater) is not accredited under NatHERS and this report is not accredited as being compliant with NatHERS. Reliance on this report is accordingly at your own risk.

floors

# Property

Address	[00 Street, Suburb, State/Territory, Postcode]
Lot/DP	[number]
NCC class*	[number]
Floor/all Floors	[dwelling entrance floor] of [total no. of floors]
Туре	[new/renovation/existing]

# Plans

Main plan[plan number, version & date]Prepared by[name of preparer of plans]

# **Construction and environment**

Assessed floor a	irea [m²]*	Exposure type
Conditioned*	000.0	[exposure]
Unconditioned*	0.0	NatHERS climate zone
Total	0.0	[number, town/suburb]
Garage	0.0	

# Rater\*\*

Name	[assessor name]
Business name	[business name]
Email	[email address]
Phone	[00 0000 0000]
Declaration of interest	[declaration]

# **NCC Requirements**

Refer to glossary. \*\* Refer explanatory notes.

BCA provisions State/Territory variation [Volume 1/Volume 2] [Yes/No]

### 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 <u>www.abcb.gov.au</u>.

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

Thermal performance Star rating



### star rating

# [XX.X] MJ/m<sup>2</sup>

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

# Thermal performance [MJ/m<sup>2</sup>]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	0000.0	0.0000
Load limits	0.0000	0000.0

### Features determining load limits

Floor type	[Type]
(lowest conditioned area)	
NCC climate zone 1 or 2	[Y/N/NA]
Outdoor living area	[Y/N/NA]
Outdoor living area ceiling fan	[Y/N/NA]

# Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

# Verification

To verify this report, scan the QR code or visit [Hstar-dev. azurewebsites.net/QR/ Generate?p=MlalcPjqJ.] When using either link, ensure you are visiting hstar-dev.azurewebsites.net



Page 1 of 10

No Whole

of Home

performance

assessment

conducted for this certificate.

No Whole

of Home

performance

assessment

conducted for this

certificate.

Predicted Whole of Home annual

Shows the contribution each appliance has on the home's

annual energy use, greenhouse gas emissions and cost

impact by appliance

Greenhouse gas emissions:

without solar.

Energy use:

## 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 written rating on this Report) 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 Report.

# 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.

Cost:

No Whole of Home performance assessment conducted for this certificate.

\* Refer to glossary. \*\* Refer explanatory notes.

Generated on [date] using [software] for [address]

#### 0.0 Star rating and 00 Whole of Home rating as of [Date]

Report check	Approval	stage	Construc stage	tion	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole report is checked.	ecked	Consent authority/ surveyor checked	hecked	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.	Rater checked	Consent surveyor	Builder checked	Consent surveyor	Occupar
Genuine report check				·	
Does this report match the one available at the web address or QR code verification link on the front page?					
Does the report number on the stamped plans match the number on this Report?					
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 <i>Window and glazed door</i> <i>schedule</i> ' and <i>'Roof window schedule</i> ' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the <i>Window and glazed door type and performance</i> ' and <i>'Roof window type and performance</i> ' 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 Report?		D			
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Report?					
<b>Floor</b> Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the <i>'Floor type'</i> table on this Report?					
Ceiling penetrations*					
Does the <i>'quantity'</i> and <i>'type'</i> of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the <i>'Ceiling penetrations'</i> table on this Report?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>Ceiling type</i> ' table on this Report?					
Roof		1		1	
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the ' <i>Roof type</i> ' table on this Report?					
Apartment entrance doors (NCC Class 2 assessments only)		1	1	1	
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 Report.					
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?					
er to glossary. ** Refer explanatory notes. erated on [date] using [software] for [address]					Page 3

	Approval	stage	Construc stage	tion	
Report check Continued	Rater 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 Report?				
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 ' <i>Appliance schedule</i> ' on this Report?				
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 ' <i>Appliance schedule</i> ' on this Report?				
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Report?				
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 Report?				
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 <i>'Additional notes'</i> table below?				
Other NCC requirements				
Note: This Report only covers the energy efficiency requirements in the NCC. Additi include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.				

#### Additional notes

\* Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address]

# Room schedule

Room		Zone Type		Area [	
	nd glazed doo	or type and pe	erformance		
Default windows	S^			Substitution to	olerance ranges
Nindow ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
			$\wedge$		
custom window	′S*		X	C V	
	Window	Maximum		Substitution to	olerance ranges
Vindow ID	description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit
/indow a	and glazed do	oor schedule			
v	and glazed do Window D Nindow	Height V	Vidth Window mm] type	Opening % Orient	Window shading tation device*
Nocation II Cocation II Roof wind	Window D no.	Height V [mm] [i	Vidth Window mm] type	% Orien	shading
V ocation II Roof wind Default* roof wir Vindow	Vindow Window D no.	Height V [mm] [	Vidth Window mm] type	% Orien	shading tation device*
V Location II	Vindow Window D no.	Height V [mm] [ Derformance Maximum	Vidth Window mm] type	% Orient	shading tation device*

\* Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address]

Generated on [date] using [software] for [address] Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

## Roof window\* schedule

Location	Window ID	Window No.	Opening %	Height [mm]	Width [mm]	Orientation	Outdo shade	
Skylight	* type and	l performa	nce					$\boldsymbol{\checkmark}$
Skylight ID		:	Skylight desc	ription		Skylight sha	ft reflect	ance
								·
Skylight	* schedule	9						
, ,		Skylight	Skylight shaft len				utdoor	
Location	Skylight ID	No.	[mm]	gth Area [m <sup>2</sup> ]			ade	Diffuser
		- 7						
External	door sch	edule						
External		edule t [mm]	Width [mm	] Open	ing %	Or	ientation	
			Width [mm	] Open	ing %	Or	ientation	
			Width [mm	] Open	ing %	Or	ientation	
Location		t [mm]	Width [mm	] Open	ing %	Or	ientation	
Location External Wall	Heigh wall type Wall	t [mm]	Solar	Wall s	shade	Bulk insulati	on	Reflective
Location External	Heigh wall type	t [mm]	8	Wall s	shade		on	
Location External Wall	Heigh wall type Wall	t [mm]	Solar	Wall s	shade	Bulk insulati	on	Reflective
Location External Wall ID	Heigh wall type Wall	t [mm]	Solar	Wall s	shade	Bulk insulati	on	Reflective
Location External Wall ID	Heigh wall <i>type</i> Wall type	t [mm]	Solar absorptanc	Wall s ce [color	shade	Bulk insulati	on	Reflective

\* Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address]

# Internal wall type

Wall ID	Wall type	Area [m2]	Bulk insulation		
Floor type					
Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Ceiling type					$\langle \rangle$
Location	Construction material/type	Bulk insulation (may include ed	R-value Ige batt values)	Reflective wrap*	
Ceiling pene	trations*			~V	
Location	Quantity	Туре	Diameter [mm <sup>2</sup> ]	Sealed/unsealed	
Ceiling fans	Quantity		Diameter [mm]		
	9	$\sim$			
Roof type			*		
Construction	Added insulation [R-v	alue]	Solar absorptance	Roof sha	ide [colour]
Thermal brid	l <b>ging</b> schedule f	or steel fran	ne elements		

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]

\* Refer to glossary. \*\* Refer explanatory notes. Generated on [date] using [software] for [address]

Generated on [date] using [software] for [address] Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

### Appliance schedule

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

Note: A flat assumption of 5W/m<sup>2</sup> is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system				
Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Whole of Home performar	ice assessment conducted	for this certificate.		
Heating system				
Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Whole of Home performar	ice assessment conducted	for this certificate.		
Hot water system		$) \vee$		
	Minimum	Substitution to	olerance ranges	
Appliance/ system type	Fuel type performan		Zone 3 STC upper limit	Assessed daily load
No Whole of Home performan	nce assessment conducted	l for this certificate.		
Pool/spa equipment			Minimum	
Appliance/ system type	Fuel type		efficiency/ performance	Recommended capacity
No Whole of Home performan	ice assessment conducted	for this certificate.		

Generated on [date] using [software] for [address]

# 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 ass	essment conducted for this certificate.	

### **Battery** schedule

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

#### System type

No Whole of Home performance assessment conducted for this certificate.

Size [battery storage capacity)

# **Explanatory notes**

#### About this report

This report is non-accredited and has been prepared by a non-accredited assessor (Rater\*\*). This is distinct from a NatHERS Certificate.

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.

#### Rater

Non-accredited assessors (Raters) are not required to have any formal qualifications, insurance, ongoing professional development or quality assurance checks on their ratings. This is distinct from NatHERS accredited assessors who are required to have qualifications, ongoing professional development and have

quality assurance checks on their ratings.

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.

Any questions or concerns about this report should be directed to the rater in the first instance. If the rater is unable to address these questions or concerns, the state or territory building code authority should be contacted.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the rater. It is the rater's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce this report.

The predicted annual energy load, cost and greenhouse gas emissions are not part of a non-accredited report. In a NatHERS Certificate these 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 rater who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the rater using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the rater.

# 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.
COP	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure	see exposure categories below.
Exposure category – exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
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 lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
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)

\* Refer to glossary. \*\* Refer explanatory notes.

Generated on [date] using [software] for [address]

# Nationwide House Energy Rating Scheme® **Class 2 Summary** NatHERS® Certificate No. [#00000000-00]

Generated on [date] using [software and version]

[other boilerplate text other boilerplate text]

00 Street.

### Property

Address

Lot/DP **NatHERS Climate Zone**  Suburb, State/Territory, Postcode] [number] [number]



# Accredited assessor

Name	
Business na	ame
Email	
Phone	
Accreditatio	on No.

[assessor name] [business name] [email address] [00 0000 0000] [0000 000 000]

Assessor Accrediting Organisation [name of Assessor Accrediting Organisation]

# Verification

To verify this certificate, scan the QR code or visit [Hstar-dev.azurewebsites.net/ QR/Generate?p=MlalcPjqJ.]

When using either link, ensure you are visiting hstar-dev.azurewebsites.net



### 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.

# Summary of all dwellings

# Thermal performance Star rating





The rating above is the average of all dwellings in this summary

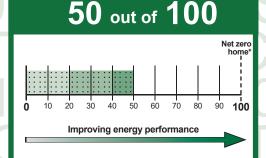
> For more information on your dwelling's rating see: www.nathers.gov.au

# NCC heating and cooling maximum loads MJ/m<sup>2</sup>/p.a.

Limits taken from ABCB Standard 2022

NEI	Heating	Cooling
Modelled		
block average	0000.0	0000.0
Maximum		
block limit	0000.0	0000.0

# Whole of Home performance rating



### The rating above is the lowest of all the dwellings in this summary

Certificate number and link	Unit Number	Heating load (load limit) [MJ/m2/p.a.]	Cooling load (load limit) [MJ/m2/p.a.]	Total load [MJ/m2/p.a.]	Star Rating	Whole of Home Rating
000000000	A1	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A2	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A3	0000.0 (000)	0000.0 (000)	0000.0	0.0	000

\* Refer to glossary

Generated on [date] using [software] for [address]



Certificate number and link	Unit Number	Heating load (load limit) [MJ/m2/p.a.]	Cooling load (load limit) [MJ/m2/p.a.]	Total load [MJ/m2/p.a.]	Star Rating	Whole of Home Rating
0000000000	A4	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
0000000000	A5	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
0000000000	A6	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
0000000000	A7	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A8	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
0000000000	A9	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A10	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A11	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A12	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A13	0000.0 (000)	0000.0 (000)	0.0000	0,0	000
000000000	A14	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A15	0000.0 (000)	0000.0 (000)	0.0000	0.0	000

### **Explanatory notes**

#### About the ratings

The thermal performance star rating in this Certificate is the average rating of all NCC Class 2 dwellings in an apartment block. The Whole of Home performance rating in this Certificate is the lowest rating for the apartment block. Individual unit ratings are listed in the 'Summary of all dwellings' section of this Certificate.

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 energy loads and societal cost. 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 production and storage to estimate the homes societal cost.

For more details about an individual dwelling's assessment, refer to the individual dwelling's NatHERS Certificate (accessible via link).

#### **Accredited Assessors**

For high quality 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.

Licensed assessors in the Australian Capital Territory (ACT) can produce assessments for regulatory purposes only, using endorsed software, as listed on the ACT licensing register.

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

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The predicted annual energy use, 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.

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Generated on [date] using [software] for [address]

# Nationwide House Energy Rating Scheme® **Class 2 Summary** NatHERS® Certificate No. [#000000000-00]

Generated on [date] using [software and version]

[other boilerplate text other boilerplate text]

00 Street.

### Property

Address Lot/DP

**NatHERS Climate Zone** 

Suburb, State/Territory, Postcode] [number] [number]



# Accredited assessor

[assessor name] [business name] [email address] [00 0000 0000] [0000 000 000]

Assessor Accrediting Organisation [name of Assessor Accrediting Organisation]

# Verification

To verify this certificate scan the QR code or visit [Hstar-dev.azurewebsites.net/ QR/Generate?p=MlalcPjqJ.]

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### 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.

# Summary of all dwellings

Thermal performance Star rating





The rating above is the average of all dwellings in this summary

> For more information on your dwelling's rating see: www.nathers.gov.au

# NCC heating and cooling maximum loads MJ/m<sup>2</sup>/p.a.

imits taken from ABCB Standard 2022

	Heating	Cooling
Modelled		
block average	0000.0	0000.0
Maximum		
block limit	0000 0	0000 0

### Whole of Home performance rating

No Whole of Home performance rating conducted for this summary certificate or

not completed for all dwellings

### The rating above is the lowest of all dwellings in this summary

Certificate number and link	Unit Number	Heating load (load limit) [MJ/m2/p.a.]	Cooling load (load limit) [MJ/m2/p.a.]	Total load [MJ/m2/p.a.]	Star Rating	Whole of Home Rating
000000000	A1	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A2	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A3	0000.0 (000)	0000.0 (000)	0000.0	0.0	000

\* Refer to glossary.

Generated on [date] using [software] for [address]



Certificate number and link	Unit Number	Heating load (load limit) [MJ/m2/p.a.]	Cooling load (load limit) [MJ/m2/p.a.]	Total load [MJ/m2/p.a.]	Star Rating	Whole of Home Rating
0000000000000	A4	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000000	A5	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
0000000000	A6	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
0000000000	A7	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A8	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
0000000000	A9	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A10	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A11	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A12	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
0000000000	A13	0000.0 (000)	0000.0 (000)	0.0000	0,0	000
000000000	A14	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A15	0000.0 (000)	0000.0 (000)	0.0000	0.0	000

### **Explanatory notes**

#### About the ratings

The thermal performance star rating in this Certificate is the average rating of all NCC Class 2 dwellings in an apartment block. The Whole of Home performance rating in this Certificate is the lowest rating for the apartment block. Individual unit ratings are listed in the 'Summary of all dwellings' section of this Certificate.

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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.

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# Residential energy rating report - Non-accredited No. [#00000000-00]

# **Class 2 summary**

#### Generated on [date] using [software and version]

This report was created using NatHERS accredited software but the non-accredited assessor (rater) is not accredited under NatHERS and this report is not accredited as being compliant with NatHERS. Reliance on this report is accordingly at your own risk.

### Property

**NatHERS Climate Zone** 

Address

Lot/DP

[00 Street, Suburb, State/Territory, Postcode] [number] [number]

### Rater\*

Name	[assessor name]
Business name	[business name]
Email	[email address]
Phone	[00 0000 0000]
Declaration of interest	[yes-managed]

# Verification

To verify this certificate, scan the QR code or visit [Hstar-dev.azurewebsites.net/ QR/Generate?p=MlalcPjqJ.]

When using either link, ensure you are visiting hstar-dev.azurewebsites.net



#### 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 <u>www.abcb.gov.au</u>.

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

# Summary of all dwellings

Thermal performance Star rating

# Average star rating

The rating above is the average of all dwellings in this summary

# NCC heating and cooling maximum loads MJ/m<sup>2</sup>/p.a.

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled block average	0000.0	0000.0
Maximum block limit	0000.0	0000.0

# Whole of Home performance rating



### The rating above is the lowest of all dwellings in this summary

Certificate number and link	Unit Number	Heating load (load limit) [MJ/m2/p.a.]	Cooling load (load limit) [MJ/m2/p.a.]	Total load [MJ/m2/p.a.]	Star Rating	Whole of Home Rating
000000000	A1	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A2	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A3	0000.0 (000)	0000.0 (000)	0000.0	0.0	000

\* Refer to glossary.

Generated on [date] using [software] for [address]

Certificate number and link	Unit Number	Heating load (load limit) [MJ/m2/p.a.]	Cooling load (load limit) [MJ/m2/p.a.]	Total load [MJ/m2/p.a.]	Star Rating	Whole of Home Rating
000000000	A4	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A5	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
0000000000	A6	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A7	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A8	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A9	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A10	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A11	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A12	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A13	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A14	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A15	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
					~ ~	

### **Explanatory notes**

#### About this report

The thermal performance star rating in this Report is the average rating of all NCC Class 2 dwellings in an apartment block. The Whole of Home performance rating in this Report is the lowest rating for the apartment block. Individual unit ratings are listed in the 'Summary of all dwellings' section of this Report.

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 energy loads and societal cost. 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 production and storage to estimate the homes societal cost.

For more details about an individual dwelling's assessment, refer to the individual dwelling's Rating Report (accessible via link).

#### Raters

Non-accredited assessors (Raters) are not required to have any formal qualifications, insurance, ongoing professional development or quality assurance checks on their ratings. This is distinct from NatHERS accredited assessors who are required to have qualifications, ongoing professional development and have quality assurance checks on their ratings.

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.

Any questions or concerns about this report should be directed to the rater in the first instance. If the rater is unable to address these questions or concerns, the state or territory building code authority should be contacted.

#### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the rater. It is the rater's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce this report.

The predicted annual energy load, cost and greenhouse gas emissions are not part of a non-accredited report. In a NatHERS Certificate these 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 rater who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the rater using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the rater.

# Residential energy rating report - Non-accredited No. [#00000000-00]

# **Class 2 summary**

#### Generated on [date] using [software and version]

This report was created using NatHERS accredited software but the non-accredited assessor (rater) is not accredited under NatHERS and this report is not accredited as being compliant with NatHERS. Reliance on this report is accordingly at your own risk.

### Property

Address

Lot/DP

[00 Street, Suburb, State/Territory, Postcode] [number] [number]

### Rater\*

Name	[assessor name]
Business name	[business name]
Email	[email address]
Phone	[000 0000 0000]
Declaration of interest	[yes-managed]

**NatHERS Climate Zone** 

# Verification

To verify this certificate, scan the QR code or visit [Hstar-dev.azurewebsites.net/ QR/Generate?p=MlalcPjqJ.]

When using either link, ensure you are visiting hstar-dev.azurewebsites.net



### 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 <u>www.abcb.gov.au</u>.

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

# Summary of all dwellings

Thermal performance Star rating

# Average star rating

The rating above is the average of all dwellings in this summary

# NCC heating and cooling maximum loads MJ/m<sup>2</sup>/p.a.

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled block average	0000.0	0000.0
Maximum block limit	0000.0	0000.0

### Whole of Home performance rating

No Whole of Home performance rating conducted for this summary report or not completed for all dwellings

### The rating above is the lowest of all dwellings in this summary

Certificate number and link	Unit Number	Heating load (load limit) [MJ/m2/p.a.]	Cooling load (load limit) [MJ/m2/p.a.]	Total load [MJ/m2/p.a.]	Star Rating	Whole of Home Rating
000000000	A1	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A2	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A3	0000.0 (000)	0000.0 (000)	0000.0	0.0	000

\* Refer to glossary.

Generated on [date] using [software] for [address]

Certificate number and link	Unit Number	Heating load (load limit) [MJ/m2/p.a.]	Cooling load (load limit) [MJ/m2/p.a.]	Total load [MJ/m2/p.a.]	Star Rating	Whole of Home Rating
0000000000	A4	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
0000000000	A5	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
0000000000	A6	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A7	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A8	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A9	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A10	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A11	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A12	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A13	0000.0 (000)	0000.0 (000)	0.0000	0.0	000
000000000	A14	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
000000000	A15	0000.0 (000)	0000.0 (000)	0000.0	0.0	000
					~ ~	

### **Explanatory notes**

#### About this report

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#### Certificate No. #000000000-00

Scan QR code or follow website link for rating details. HOUSE Assessor name [Name] [000 000 000] Accreditation No. Property Address [00 Street, Suburb] [State/Territory, Postcode]



[Hstar-dev.azurewebsites.net/QR/Generate?p=MlalcPjqJ.]

#### Non-accredited report No. #000000000-00

 Scan QR code or follow website link for rating details.

 Rater name
 [Name]

 Property Address
 [00 Street, Suburb]

 [State/Territory, Postcode]



[Hstar-dev.azurewebsites.net/QR/Generate?p=MlalcPjqJ.]

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