Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 0011652484

Generated on 08 Jan 2025 using BERS Pro v5.2.3 (3.23)

Property

Address Unit B, 31 Dunmore Street

CROYDON PARK, NSW, 2133

Lot/DP Lot 33 DP 853

NCC class' 1b

G of 2 floors Floor/all Floors New Home Type

Plans

Main plan

Prepared by Zed architects pty Ltd

Construction and environment

Assessed floor area [m2]*

Conditioned* 153.6

Unconditioned* Total

7.4

Garage

181.2

20.2

Exposure type

Suburban

NatHERS climate zone

56 Mascot (Sydney Airport)



Noura Al Hazzouri

Business name

Email noura.h@optusnet.com.au

Phone 0405600 600 Accreditation No. DMN/18/1891

Assessor Accrediting Organisation

Design Matters National

Declaration completed: no conflicts Declaration of interest

NCC Requirements

NCC provisions Volume Two

Strate/Territory variation Yes

National Construction Code (NCC) requirements

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

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

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

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

Thermal performance Star rating



NATIONWIDE

29.0 MJ/m²

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

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

Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

Heating Cooling Modelled 23.3 5.7 Load limits N/A N/A

Features determining load limits

Floor Type CSOG (lowest conditioned area) NCC climate zone 1 or 2 No Outdoor living area No Outdoor living area ceiling fan

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

hstar.com.au

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate? p=SxzPflGOo When using either link, ensure you are visiting





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.

Predicted Whole of Home annual impact by appliance

Energy use

Greenhouse gas emissions

No Whole
of Home
performance
assessment
conducted for this
certificate

No Whole of Home

performance

assessment conducted for 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 Standard 2022: NatHERS heating and cooling load limits 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

Νo

NA - Not Applicable

Outdoor Living Area Ceiling Fan:

Yes

No

NA - Not Applicable



No Whole
of Home
performance
assessment
conducted for this
certificate

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.



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7.1 Star Rating as of 08 Jan 2025

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Certificate check	Approval Stage		Construction Stage			
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other	
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Assess	Conser	Builder	Conser	Occupa	
Genuine certificate check		1	1	1		
Does this Certificate match the one available at the web address or QR code verification link on the front page?						
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?						
Thermal performance check						
Windows and glazed doors						
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?						
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?						
External walls						
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?						
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?						
Floor						
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Floor type' table on this certificate?						
Ceiling penetrations*						
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?						
Ceiling						
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate?						
Roof						
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?						
Apartment entrance doors (NCC Class 2 assessments only)						
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.						
Exposure*						
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor highrise apartment is "protected".						
Heating and cooling load limits*						
Do the load limits settings (shown on page 1) match what is shown						

7.1 Star Rating as of 08 Jan 2025

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Certificate check	ecked	hority/ ecked	ked	hority	Other
Continued	or ch	t Aut	chec	t Aut	ncy/C
	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not included)	ıded in ti	he NatHE	RS asse	ssment)	
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	e performa	ance asses	ssment is r	not conduc	eted)
Appliances					
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?					
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?					
Additional NCC Requirements for Services (not included in the	NatHERS	assessi	ment)		
Does the lighting meet the artificial lighting requirements specified in the NCC?					
Does the hot water system meet the additional requirements specified in the NCC?					
Provisional values* check					
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?					
Other NCC requirements					
Note: This Certificate only covers the energy efficiency requirements in the NCC. Addi but are not limited to: condensation, structural and fire safety requirements and any strequirements.					
Additional notes					



Room schedule

Room	Zone Type	Area [m²]
Garage	Garage	20.23
ldry	Unconditioned	3.78
wc	Unconditioned	3.59
entry	Daytime	25.59
Bedroom 1	Bedroom	10.95
Kitchen/Living	Kitchen/Living	59.55
Bedroom 1	Bedroom	14.54
ens 1	Nighttime	4.13
Bedroom 4	Bedroom	9.52
Bedroom 3	Bedroom	9.26
Bedroom 2	Bedroom	11.23
bath	Daytime	4.98
ff hallway	Living	19.49
wir	Nighttime	4.87

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	энос	SHGC lower limit	SHGC upper limit	
ALM-001-03 A	Aluminium A SG High Solar Gain Low-E	5.4	0.49	0.47	0.51	
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E	4.1	0.52	0.49	0.55	

Custom windows*

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

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
ldry	ALM-001-03 A	W1	2200	900	Casement	90	S	No

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Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
WC	ALM-001-03 A	W3	700	700	Awning	90	S	No
Bedroom 1	ALM-001-03 A	W1	2300	900	Awning	45	S	No
Bedroom 1	ALM-001-03 A	n/a	2300	900	Awning	45	S	No
Kitchen/Living	ALM-001-03 A	n/a	2300	900	Awning	45	S	No
Kitchen/Living	ALM-001-03 A	n/a	2300	900	Awning	45	S	No
Kitchen/Living	ALM-001-03 A	n/a	2300	900	Awning	45	S	No
Kitchen/Living	ALM-006-03 A	Sd1	2400	2400	Sliding	45	W	No
Kitchen/Living	ALM-006-03 A	SD1	2400	2400	Sliding	45	W	No
Bedroom 1	ALM-001-03 A	n/a	1300	1800	Awning	90	S	No
Bedroom 1	ALM-001-03 A	W4	1800	1800	Awning	90	Е	No
ens 1	ALM-001-03 A	n/a	700	700	Awning	90	S	No
Bedroom 4	ALM-001-03 A	W2	1300	1800	Awning	90	S	No
Bedroom 3	ALM-001-03 A	W19	1300	1800	Awning	90	W	No

Roof window* type and performance value

W2

ALM-001-03 A

Default roof windows*

Bedroom 2

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

1300 1800 Awning

90

W

No

Custom roof windows*

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

Roof window* schedule

Location	Window ID	Window no.	Opening %	Height [mm]	Width [mm]	Orientation	Outdoor shade	Indoor shade
No Data Available								



Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
GEN-04-009a	Double-glazed opal, Timber and Aluminium Frame	0.5

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area Orientation [m²]	Outdoor shade	Diffuser
Kitchen/Living	GEN-04-009a	n/a	50	1.00 W	None	No
bath	GEN-04-009a	S5	50	0.49 W	None	No
ff hallway	GEN-04-009a	S1	50	0.98 W	None	No

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2500	2500	90	Е	
entry	2600	1900	90	Е	_

External wall type

Wall Wall	Solar Wall shad	Reflective	
ID type	absorptance [colour]	[R-value]	wall wrap*
EW-1 Cavity Brick	0.50	Foil Sided Bubble Wrap, Anti-glare one side	No
EW-2 EPS Direct Fix Timber Stud Frame	0.50	Anti-glare foil with bulk no gap R2.7	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Garage	EW-1	3000	3600	E	0	No
Garage	EW-1	3000	5635	S	0	No
Garage	EW-1	3000	2000	N	0	No
ldry	EW-1	3000	1580	S	0	No
wc	EW-1	3000	1490	S	0	No
entry	EW-1	3000	2285	E	0	No
Bedroom 1	EW-1	3000	3040	S	0	No
Kitchen/Living	EW-1	3000	9945	S	0	No
Kitchen/Living	EW-1	3000	6000	W	2300	Yes



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Bedroom 1	EW-2	2700	3295	S	0	No
Bedroom 1	EW-2	2700	3995	E	1900	No
ens 1	EW-2	2700	1490	S	0	No
Bedroom 4	EW-2	2700	3040	S	0	No
Bedroom 3	EW-2	2700	3595	S	0	No
Bedroom 3	EW-2	2700	2400	W	0	No
Bedroom 2	EW-2	2700	3600	W	0	No
Bedroom 2	EW-2	2700	3145	S	0	No
wir	EW-2	2700	1995	Е	1900	No

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Single Skin Brick	73.08	No insulation
IW-002	Cavity brick, plasterboard	69.42	No Insulation
IW-003	Timber Stud Frame, Direct Fix Plasterboard	83.57	No insulation

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage	Concrete Slab on Ground 300mm	20.23	None	No Insulation	Bare
ldry	Concrete Slab on Ground 300mm	3.78	None	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
wc	Concrete Slab on Ground 300mm	3.59	None	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
entry	Concrete Slab on Ground 300mm	25.59	None	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab on Ground 300mm	10.95	None	Bulk Insulation, Gap to Floor R2.5	Carpet 10mm

7.1 Star Rating as of 08 Jan 2025



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Kitchen/Living	Concrete Slab on Ground 300mm	59.55	None	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm
Bedroom 1 / Garage	Concrete Timber Framed Above Plasterboard 250mm	12.62		No Insulation	Ceramic Tiles 8mm
Bedroom 1 / entry	Concrete Timber Framed Above Plasterboard 250mm	1.39		No Insulation	Ceramic Tiles 8mm
ens 1 / Garage	Concrete Timber Framed Above Plasterboard 250mm	2.86		No Insulation	Ceramic Tiles 8mm
ens 1 / ldry	Concrete Timber Framed Above Plasterboard 250mm	1.06		No Insulation	Ceramic Tiles 8mm
Bedroom 4 / Idry	Concrete Timber Framed Above Plasterboard 250mm	2.88		No Insulation	Carpet 10mm
Bedroom 4 / wc	Concrete Timber Framed Above Plasterboard 250mm	3.78		No Insulation	Carpet 10mm
Bedroom 4 / entry	Concrete Timber Framed Above Plasterboard 250mm	0.64		No Insulation	Carpet 10mm
Bedroom 4 / Bedroom 1	Concrete Timber Framed Above Plasterboard 250mm	1.25		No Insulation	Carpet 10mm
Bedroom 3 / Bedroom 1	Concrete Timber Framed Above Plasterboard 250mm	7.38		No Insulation	Carpet 10mm
Bedroom 3 / Kitchen/Living	Concrete Timber Framed Above Plasterboard 250mm	1.67		No Insulation	Carpet 10mm
Bedroom 2 / Kitchen/Living	Concrete Timber Framed Above Plasterboard 250mm	11.23		No Insulation	Carpet 10mm
bath / entry	Concrete Timber Framed Above Plasterboard 250mm	3.75		No Insulation	Ceramic Tiles 8mm
bath / Kitchen/Living	Concrete Timber Framed Above Plasterboard 250mm	1.03		No Insulation	Ceramic Tiles 8mm
ff hallway / entry	Concrete Timber Framed Above Plasterboard 250mm	9.99		No Insulation	Ceramic Tiles 8mm
ff hallway / Bedroom 1	Concrete Timber Framed Above Plasterboard 250mm	0.00		No Insulation	Ceramic Tiles 8mm
ff hallway / Kitchen/Living	Concrete Timber Framed Above Plasterboard 250mm	0.00		No Insulation	Ceramic Tiles 8mm
wir / entry	Concrete Timber Framed Above Plasterboard 250mm	3.76		No Insulation	Ceramic Tiles 8mm
wir	Suspended Concrete Slab 250mm	0.97	Open	Bulk Insulation, Gap to Floor R2.5	Ceramic Tiles 8mm



Ceiling type

Garage	Concrete, Plasterboard with Timber Frame		wrap* [yes/no]
	,	Bulk Insulation R2.5	
Garage	Concrete Timber Framed Above Plasterboard	No Insulation	
ldry	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5	
ldry	Concrete Timber Framed Above Plasterboard	No Insulation	
wc	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5	
wc	Concrete Timber Framed Above Plasterboard	No Insulation	
entry	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5	
entry	Concrete Timber Framed Above Plasterboard	No Insulation	
Bedroom 1	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5	
Bedroom 1	Concrete Timber Framed Above Plasterboard	No Insulation	
Kitchen/Living	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5	
Kitchen/Living	Concrete Timber Framed Above Plasterboard	No Insulation	
Bedroom 1	Plasterboard on Timber	Bulk Insulation R7	
ens 1	Plasterboard on Timber	Bulk Insulation R7	
Bedroom 4	Plasterboard on Timber	Bulk Insulation R7	
Bedroom 3	Plasterboard on Timber	Bulk Insulation R7	
Bedroom 2	Plasterboard on Timber	Bulk Insulation R7	
bath	Plasterboard on Timber	Bulk Insulation R7	
ff hallway	Plasterboard on Timber	Bulk Insulation R7	
wir	Plasterboard on Timber	Bulk Insulation R7	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	
ldry	1	Exhaust Fans	350	Sealed	
wc	1	Exhaust Fans	350	Sealed	
entry	5	Downlights - LED	0	Sealed	
Bedroom 1	2	Downlights - LED	0	Sealed	
Kitchen/Living	10	Downlights - LED	0	Sealed	
Kitchen/Living	1	Exhaust Fans	350	Sealed	
Bedroom 1	3	Downlights - LED	0	Sealed	

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Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	
ens 1	1	Exhaust Fans	350	Sealed	
Bedroom 4	2	Downlights - LED	0	Sealed	
Bedroom 3	2	Downlights - LED	0	Sealed	
Bedroom 2	2	Downlights - LED	0	Sealed	
bath	1	Exhaust Fans	350	Sealed	
ff hallway	4	Downlights - LED	0	Sealed	

Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Waterproofing Membrane	No Insulation, Only an Air Gap	0.50	Medium
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.50	Medium

Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	break [R-value]
No Data Available				

Appliance schedule

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

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

Cooling system

No Data Available	

Heating system

Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available				



Hot water system

	Hot	Minimum Zone 3		Zone 3 Su	ıbstitution	Assessed	
Appliance/ system type	Fuel type	Water	efficiency	STC	toleranc	e ranges	daily load
	CER Zone	/STC	310	lower limit	upper limit	[litres]	

No Data Available

Pool/spa equipment

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

No Data Available

Onsite Renewable Energy Schedule

System Type	Orientation	System Size Or Generation Capacity

No Data Available

Battery Schedule

System Type	Size [Battery Storage Capacity]
No Data Available	



Explanatory notes

About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary.

Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and

are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

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

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

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

Glossary

AFRC	Australian Fenestration Rating Council
Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
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.
COP	Coefficient of performance
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.
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 – protected	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – suburban	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 airgap 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.
Skylight (also known as roof lights	s) for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
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.
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 Regulator (CER)
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 or continuous thermal breaks such as polystyrene insulation sheeting or plastic strips
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	device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)