Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0009339656-01

Generated on 28 Mar 2024 using BERS Pro v5.1.7 (3.22)

Property

Address 19 Burne Avenue,

Dee Why, NSW, 2099

Lot 2 DP 209386

NCC class* 1a

Floor/all Floors G of 2 floors

Type New Home

Plans

Main plan 2105

Prepared by Romina Rojo Studio

Construction and environment

Assessed floor area [m2]*

Conditioned* 45.9

Unconditioned* 10.9 Total 56.8

Garage 0.0

Exposure type

Suburban

NatHERS climate zone

56 Mascot (Sydney Airport)



Name Terry Chapman

Business name CHAPMAN ENVIRONMENTAL SERVICES

PTY LTD

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Accreditation No. 20920 Assessor Accrediting Organisation

ABSA

Declaration of interest Declaration completed: no conflicts

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.au.

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

Thermal performance Star rating



NATIONWIDE HOUSE ENERGY RATING SCHEME

30.0 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	16.8	13.2
Load limits	N/A	N/A

Features determining load limits

Floor Type
(lowest conditioned area)

NCC climate zone 1 or 2

Outdoor living area

Outdoor living area ceiling fan

No

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.com.au/QR/Generate? p=BCEiQKhjn.
When using either link, ensure you are visiting hstar.com.au





About the ratings

Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

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

No

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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Certificate check	Approva	I Stage	Construc Stage	ction	
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	Conse	Builder	Conse	Occup
Genuine certificate check			'		
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check					
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?					
Floor					
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Floor type' table on this certificate?					
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate?					
Roof					
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 9	Star	Rating	as	of 28	Mar	2024
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HOUSE	

	Approva	I Stage	Stage Stage	ction	
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not include	ıded in tl	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 Hom	e performa	ance asses	ssment is r	not conduc	ted)
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	assessr	nent)		
Does the lighting meet the artificial lighting requirements specified in the NCC?					
Does the hot water system meet the additional requirements specified in the NCC?					
Provisional values* check					
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?					
Other NCC requirements					
Note: This Certificate only covers the energy efficiency requirements in the NCC. Additional but are not limited to: condensation, structural and fire safety requirements and any strequirements.					
Additional notes					
External walls EW-3 and EW-5 are not applicable as per page 8 of the Nathe	ers Certific	ate			



Room schedule

Room	Zone Type	Area [m ²]
Bedroom	Bedroom	9.37
Robe	Nighttime	9.36
Laundry	Unconditioned	2.22
Bathroom	Unconditioned	6.87
WC	Unconditioned	1.8
Kitchen/Living	Kitchen/Living	28.61
Upper WC	Daytime	1.79
Kitchen/Living	Living	3.78

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	
No Data Availa	able					

Custom windows*

Window ID	Window ID Window Maximum		SHGC*	Substitution tolerance ranges		
willdow ib	Description	U-value*	зпос	SHGC lower limit	SHGC upper limit	
ALU-001-45 A	Casement Id4000 DG 031_AGG MAX Clr 6_16_6	1.7	0.15	0.14	0.16	
ALU-002-02 A	Awning Id4000 DG 6mmEntTech- 12Ar-6mmClr	1.7	0.32	0.30	0.34	
ALU-004-06 W	60mm Sliding Window DG LightBridge_ClrSII_65-14-4	2.1	0.32	0.30	0.34	
ALU-012-03 A	IDEAL 2000 Fixed Window DG LightBridge_ClrSO_6-12-6	1.5	0.47	0.45	0.49	
ALU-016-03 W	IDEAL 2000 Inward Opening Door DG LightBridge_ClrSO_6-12-6	1.6	0.35	0.33	0.37	

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Bedroom	ALU-002-02 A	W8	1610	1400	Awning	90	E	No
Bedroom	ALU-002-02 A	W21	1160	700	Awning	90	W	No
Robe	ALU-016-03 W	W7	2060	800	Casement	90	E	No

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Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Robe	ALU-002-02 A	W20	780	650	Awning	10	W	No
Robe	ALU-012-03 A	W23	650	650	Fixed	00	W	No
Laundry	ALU-002-02 A	W4	410	1025	Awning	10	N	No
Bathroom	ALU-002-02 A	W2	410	2050	Awning	10	N	No
Bathroom	ALU-012-03 A	W1	410	900	Fixed	00	E	No
Bathroom	ALU-001-45 A	W6	2020	350	Casement	90	S	No
WC	ALU-001-45 A	W22	2100	430	Casement	10	Е	No
Kitchen/Living	ALU-016-03 W	W17	2060	800	Casement	90	N	No
Kitchen/Living	ALU-002-02 A	W16	1160	700	Awning	10	Е	No
Kitchen/Living	ALU-002-02 A	W15	1160	700	Awning	10	Е	No
Kitchen/Living	ALU-002-02 A	W14	1610	1420	Awning	10	Е	No
Kitchen/Living	ALU-004-06 W	W13	1800	4520	Sliding	70	Е	Yes
Kitchen/Living	ALU-002-02 A	W12	1125	820	Awning	90	S	No
Kitchen/Living	ALU-002-02 A	W11	1125	410	Awning	90	S	No
Kitchen/Living	ALU-002-02 A	W10	650	4020	Awning	30	W	No
Kitchen/Living	ALU-002-02 A	n/a	2200	650	Awning	10	W	No
Kitchen/Living	ALU-002-02 A	W18	1125	410	Awning	90	S	No

Roof window* type and performance value

Default roof windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	эндс.	SHGC lower limit	SHGC upper limit	
No Data Avail	lable					

Custom roof windows*

Window ID	Window	Maximum		Substitution tolerance ranges		
Window ID	Description	U-value*	SHGC*	GC* SHGC lower limit SHGC upper lin	SHGC upper limit	
No Data Availa	able					

Roof window* schedule

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



Skylight* type and performance

Skylight ID **Skylight description** Skylight shaft reflectance

No Data Available

Skylight* schedule

Skylight Skylight Skylight Outdoor Area Location Orientation Diffuser shaft length [m²] No. shade [mm]

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Bedroom	2100	880	90	W
Kitchen/Living	2100	980	90	W

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW-	Metal Clad Steel Stud Frame Direct Fix	0.59376941176470	6	Anti-glare foil with bulk no gap R3.5	No
EW- 2	Concrete Block, Lined Timber Stud Frame	0.59		Bulk Insulation R2.7	No
EW-	Metal Clad Timber Stud Frame Direct Fix	0.59376941176470	6	Anti-glare foil with bulk no gap R4	No
EW- 4	Metal Clad Timber Stud Frame Direct Fix	0.59376941176470	6	Anti-glare foil with bulk no gap R3.5	No
EW- 5	Metal Clad Timber Stud Frame Direct Fix	0.67		Anti-glare foil with bulk no gap R2.5	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Bedroom	EW-1	2400	1295	Е	0	No
Bedroom	EW-1	2400	400	N	4225	No
Bedroom	EW-1	2400	1400	E	0	No
Bedroom	EW-1	2400	400	S	0	No
Bedroom	EW-1	2400	700	E	0	No
Bedroom	EW-2	2400	2600	S	0	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Bedroom	EW-1	2400	3395	W	0	No
Robe	EW-1	2400	2890	E	0	No
Robe	EW-1	2400	1895	W	0	No
Robe	EW-1	2400	2095	W	0	No
Laundry	EW-1	2400	1508	N	0	No
Laundry	EW-4	2400	1295	W	0	No
Bathroom	EW-1	2400	2210	N	0	No
Bathroom	EW-1	2400	901	E	0	No
Bathroom	EW-1	2400	2419	S	0	No
WC	EW-1	2400	1000	N	0	No
WC	EW-1	2400	1806	E	0	Yes
Kitchen/Living	EW-1	2950	2600	N	0	No
Kitchen/Living	EW-1	2200	800	E	250	No
Kitchen/Living	EW-1	2200	1100	E	0	No
Kitchen/Living	EW-1	2200	800	E	250	No
Kitchen/Living	EW-1	2200	1700	Е	0	No
Kitchen/Living	EW-1	2200	400	N	1700	No
Kitchen/Living	EW-1	2200	1500	E	0	No
Kitchen/Living	EW-1	2200	400	S	1800	No
Kitchen/Living	EW-1	2200	1800	E	0	No
Kitchen/Living	EW-1	2700	4600	E	400	Yes
Kitchen/Living	EW-1	2200	1800	E	0	No
Kitchen/Living	EW-1	3000	900	S	0	No
Kitchen/Living	EW-1	2900	1700	W	0	No
Kitchen/Living	EW-1	2900	895	S	0	No
Kitchen/Living	EW-1	2200	4690	W	250	No
Kitchen/Living	EW-4	2200	1895	W	0	No
Upper WC	EW-4	2200	990	W	0	No
Kitchen/Living	EW-1	2700	795	S	0	No
Kitchen/Living	EW-1	2700	4795	W	0	No



Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Steel Stud Frame, Direct Fix Plasterboard	47.14	Bulk Insulation, No Air Gap R2.7
IW-002	Timber Stud Frame, Direct Fix Plasterboard	0.00	Bulk Insulation, No Air Gap R2.7

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bedroom	Concrete Slab on Ground 100mm	9.37	None	Bulk Insulation in Contact with Floor R1.9	Cork Tiles or Parquetry 8mm
Robe	Concrete Slab on Ground 100mm	9.36	None	Bulk Insulation in Contact with Floor R1.9	Cork Tiles or Parquetry 8mm
Laundry	Suspended Floor Steel Frame 19mm	2.22	Enclosed	Bulk Insulation in Contact with Floor with 0.20 Thermal Break R3.1	Ceramic Tiles 8mm
Bathroom	Suspended Floor Steel Frame 19mm	6.87	Enclosed	Bulk Insulation in Contact with Floor with 0.20 Thermal Break R3.1	Ceramic Tiles 8mm
wc	Suspended Floor Steel Frame 19mm	1.80	Enclosed	Bulk Insulation in Contact with Floor with 0.20 Thermal Break R3.1	Ceramic Tiles 8mm
Kitchen/Living / Bedroom	Steel Framed Timber Above Plasterboard 100mm	4.19		Bulk Insulation with 0.20 Thermal Break R6	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Kitchen/Living / Robe	Steel Framed Timber Above Plasterboard 100mm	1.52		Bulk Insulation with 0.20 Thermal Break R6	Cork Tiles or Parquetry 8mm
Kitchen/Living	Concrete Slab on Ground 100mm	16.27	None	Bulk Insulation in Contact with Floor R1.9	n Cork Tiles or Parquetry 8mm
Upper WC / Bedroom	Steel Framed Timber Above Plasterboard 100mm	1.42		Bulk Insulation with 0.20 Thermal Break R6	Ceramic Tiles 8mm
Kitchen/Living	Concrete Slab on Ground 100mm	3.78	None	Bulk Insulation in Contact with Floor R1.9	n Cork Tiles or Parquetry 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Bedroom	Steel Framed Timber Above Plasterboard	Bulk Insulation with 0.20 Thermal Break R6	
Robe	Metal outer layer sandwich panel with 125mm EPS	Bulk Insulation R6	
Robe	Steel Framed Timber Above Plasterboard	Bulk Insulation with 0.20 Thermal Break R6	
Laundry	Metal outer layer sandwich panel with 125mm EPS	Bulk Insulation R6	_
Bathroom	Metal outer layer sandwich panel with 125mm EPS	Bulk Insulation R6	
WC	Metal outer layer sandwich panel with 125mm EPS	Bulk Insulation R6	
Kitchen/Living	g Plasterboard on Steel	Bulk Insulation R6	
Upper WC	Plasterboard on Steel	Bulk Insulation R6	
Kitchen/Living	p Plasterboard on Steel	Bulk Insulation R6	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Bedroom	2	Downlights - LED	150	Sealed
Robe	4	Downlights - LED	150	Sealed
Laundry	1	Downlights - LED	150	Sealed

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Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	•
Bathroom	1	Downlights - LED	150	Sealed	
Bathroom	1	Exhaust Fans	300	Sealed	
WC	1	Downlights - LED	150	Sealed	
Kitchen/Living	16	Downlights - LED	150	Sealed	
Kitchen/Living	1	Exhaust Fans	300	Sealed	
Upper WC	1	Downlights - LED	150	Sealed	
Upper WC	1	Exhaust Fans	300	Sealed	
Kitchen/Living	1	Downlights - LED	150	Sealed	

Ceiling fans

Location	Quantity Diameter [mm]		
Bedroom	1	1400	
Kitchen/Living	2	1400	

Roof type

Construction	Added insulation [R-value]	Solar absorptance Roof shade[colour]		
Waterproofing Membrane	No Added Insulation, No air Gap	0.5	Medium	
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.59	Medium	

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]
External Wall		600	0.75	R0.2
Ceiling		900	0.75	R0.2
Internal Wall		600	0.75	R0.2
Floor		450	1.5	R0.2

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.

HOUSE

Cooling system

Appliance/ system type	Loc	cation F	Fuel type	Minimum e efficiency/ performance		Recommended capacity	
No Data Available							
Heating system							
Appliance/ system type	Loc	cation F	Fuel type	effi	nimum ciency/ ormance		mended acity
No Data Available							
Hot water system							
Appliance/ system type	Fuel type	Hot Water CER Zone	Minimum efficiency /STC	Zone 3 STC -		ubstitution e ranges upper limit	Assessed daily load [litres]
No Data Available							
Pool/spa equipment							
Appliance/ system type		Fuel type		Minimur efficience performa	:y/	Recomm capac	
No Data Available							
Onsite Renewable	e Energy Sch	edule					
System Type	Orientation		Syst	em Size Oı	Generation	Capacity	
No Data Available							
Battery Schedule							
System Type	Size [Bat	ttery 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 flue 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) 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)		