Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011907755

Generated on 11 May 2025 using BERS Pro v5.2.4 (3.23)

Property

Address

Lot/DP NCC class Floor/all Floors Type

17 President Street CROYDON PARK, NSW, 2133 Lot 2 DP 602457 1a G of 2 floors New Home

Plans

Main plan Prepared by 9002 Crystele Homes

Construction and environment

Assessed floor area [m2]*

Conditioned* 172.6 Unconditioned* 13.5 Total 220.7 Garage 34.5

Exposure type Suburban NatHERS climate zone 56 Mascot (Sydney Airport)

CHAPMAN ENVIRONMENTAL SERVICES



Accredited assessor

Name **Business name**

Email Phone Accreditation No. Assessor Accrediting Organisation ABSA

Declaration of interest

NCC Requirements

NCC provisions Strate/Territory variation Volume Two Yes

Terry Chapman

1300 004 914

info@cesenergy.com.au

Declaration completed: no conflicts

PTY LTD

20920

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

The more stars the more energy efficient

NATIONWIDE

29.9 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
odelled	18.0	11.8
oad limits	N/A	N/A

Features determining load limits

M

L

Floor Type (lowest conditioned area)	csoo
NCC climate zone 1 or 2	No
Outdoor living area	No
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=eWGwnyLOs . When using either link, ensure you are visiting hstar.com.au



* Refer to glossary Generated on 11 May 2025 using BERS Pro v5.2.4 (3.23) for 17 President Street , CROYDON PARK , NSW , 2133



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 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

NA – Not Applicable

Outdoor Living Area Ceiling Fan:

Yes No

NA – Not Applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

Energy use



Greenhouse gas emissions



Cost



7 Star Rating as of 11 May 2025

Certificate check	Approva	I Stage	Construe Stage	ction	HOUSE
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	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.	Assesso	Consent Surveyo	Builder checked	Consent Surveyo	Occupan
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 high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown					

<u>.</u>

HOUSE	

0011907755 NatHERS Certificate 7 Star Rating as of 11 May 2025					HOUSE
	Approva	al Stage	Constru Stage	ction	
Certificate check	ecked	hority/ scked	ked	hority scked	Other
Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not inclu	uded in t	he NatHE	ERS asse	essment)	
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 perform	ance asse	ssment is I	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	S assessi	ment)	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 'Additional notes' table below?					
Other NCC requirements					
Note: This Certificate only covers the energy efficiency requirements in the NCC. Add	itional requi	rements that	at must also	be satisfied	include,

but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.

Additional notes



Room schedule

Zone Type	Area [m ²]
Garage	34.54
Unconditioned	4.32
Kitchen/Living	44.8
Living	17.42
Bedroom	19.39
Nighttime	5.98
Nighttime	3.26
Nighttime	7.39
Unconditioned	9.19
Bedroom	11.81
Daytime	20.25
Unconditioned	2.53
Unconditioned	17.13
Bedroom	15.47
Bedroom	12.9
Living	24.79
Daytime	7.07
	GarageUnconditionedKitchen/LivingLivingBedroomNighttimeNighttimeUnconditionedBedroomDaytimeUnconditionedUnconditionedBedroomEdroomLivingLinconditionedLivingLiving

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
window ib	Description	U-value*	51160	SHGC lower limit	SHGC upper limit	
No Data Available						

Custom windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges	
	Description	U-value*	3666	SHGC lower limit	SHGC upper limit
AWS-001-019	Aluminium Sliding Window SG 6.38CPCIr	4.5	0.59	0.56	0.62
AWS-029-302	Aluminium Bifold Door DG LB Clr 5/12/5	3.4	0.42	0.40	0.44
AWS-013-013	Aluminium Sliding Door DG LB Clr 4/12/4	3.0	0.49	0.46	0.51
AWS-068-003	Aluminium Fixed Window SG 6.38CPCIr	4.4	0.63	0.59	0.66

0011907755 NatHER	S Certificate	7 Star



Custom windows*

Window ID Window Description U-value*	Maximum	CUCC*	Substitution tolerance ranges		
	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Ldry	AWS-001-019-001	W5	1800	900	Sliding	30	SW	No
Kitchen/Living1	AWS-001-019-001	W6	1800	1800	Sliding	30	NW	No
Kitchen/Living1	AWS-001-019-001	W7	1800	1800	Sliding	30	NW	No
Kitchen/Living1	AWS-029-302-001	BI D 1	2100	3800	Bifold	90	NE	No
Theatre	AWS-013-013-001	SD1	2100	2200	Sliding	30	NW	No
Theatre	AWS-001-019-001	W3	1800	900	Sliding	30	SE	No
Theatre	AWS-001-019-001	W4	1800	900	Sliding	30	SE	No
Bedroom 1	AWS-001-019-001	W24	1500	2400	Sliding	10	SE	No
WIR2	AWS-001-019-001	W25	1500	600	Sliding	10	SE	No
ENS	AWS-001-019-001	n/a	1200	600	Sliding	10	SW	No
Bathroom	AWS-001-019-001	n/a	1200	600	Sliding	10	SW	No
Bedroom 4	AWS-001-019-001	W33	1200	1800	Sliding	10	SW	No
Hallway	AWS-001-019-001	W32	900	1800	Sliding	10	NW	No
Void	AWS-068-003-001	W27	1500	900	Fixed	00	SE	No
Void	AWS-068-003-001	W28	1500	900	Fixed	00	SE	No
Void	AWS-068-003-001	W26	1500	600	Fixed	00	SE	No
Bedroom 3	AWS-001-019-001	W29	1500	900	Sliding	10	SE	No
Bedroom 3	AWS-001-019-001	W30	1500	900	Sliding	10	SE	No
Bedroom 3	AWS-001-019-001	W31	1200	1800	Sliding	10	NW	No
Living	AWS-001-019-001	W22	1800	900	Sliding	30	SE	No
Living	AWS-001-019-001	W23	1800	900	Sliding	30	SE	No

Roof window* type and performance value

Default roof windows*

Window ID	Window	Maximum	SHGC*	Substitution to	Substitution tolerance ranges		
willdow ID	Description	U-value*	3660	SHGC lower limit	SHGC upper limit		
No Data Avail	able						



Custom roof windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	cription U-value*		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 Ava	ilable							

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m ²] Orientation	Outdoor shade	Diffuser	
No Data Available							

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2140	4810	90	SE	
Living	2040	1020	90	SE	

External wall type

Wall ID	Wall type	Wall Solar shade absorptance [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW- 1	Timber Stud Frame Brick Veneer	0.85	Foil, Anti-glare one side + Bulk Insulation R2.5	No
EW- 2	Single Skin Brick	0.85	No insulation	No
EW- 3	Fibro Timber Stud Frame Panel on Battens	0.85	Foil, Anti-glare one side + Bulk Insulation R2.5	No



External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Garage	EW-2	3533	5595	SE	600	No
Garage	EW-1	3533	5500	SW	0	No
Ldry	EW-1	2590	2090	SW	0	No
Kitchen/Living1	EW-1	2590	5295	NW	600	No
Kitchen/Living1	EW-1	2590	2000	NE	600	No
Kitchen/Living1	EW-1	2590	4100	NW	0	No
Kitchen/Living1	EW-1	2590	4295	NE	3200	No
Theatre	EW-1	2590	2500	NW	4600	No
Theatre	EW-1	2590	4400	NE	0	No
Theatre	EW-1	2590	3995	SE	600	No
Bedroom 1	EW-3	2590	500	NE	4600	No
Bedroom 1	EW-3	2590	4095	SE	600	No
WIR2	EW-3	2590	1495	SE	600	No
WIR2	EW-3	2590	4095	SW	600	No
ENS	EW-1	2590	2490	SW	600	No
Bathroom	EW-1	2590	2590	SW	600	No
Bedroom 4	EW-1	2590	4000	NW	600	No
Bedroom 4	EW-3	2590	1995	NE	600	No
Bedroom 4	EW-1	2590	3195	SW	600	No
Hallway	EW-3	2590	2995	NW	600	No
Void	EW-3	2590	1000	NE	4500	No
Void	EW-1	2590	2300	NE	600	No
Void	EW-1	2590	2500	SE	600	No
Void	EW-1	2590	1200	SW	7700	No
Void	EW-1	2590	1495	SE	1800	No
Bedroom 3	EW-1	2590	1095	NE	3000	No
Bedroom 3	EW-1	2590	2500	NW	600	No
Bedroom 3	EW-1	2590	3500	NE	500	No
Bedroom 3	EW-3	2590	3995	SE	600	No

0011907755 NatHERS Certificate

7 Star Rating as of 11 May 2025



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Bedroom 3	EW-1	2590	4095	NW	600	No
Bedroom 3	EW-1	2590	3195	NE	600	No
Living	EW-1	2590	2400	NE	0	No
Living	EW-1	2590	2500	SE	0	No
Living	EW-1	2590	1200	SW	0	No
Living	EW-1	2590	1495	SE	0	No
BUtlers	EW-1	2590	4295	SW	0	No
BUtlers	EW-1	2590	1695	NW	0	No

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	74.17	Bulk Insulation, No Air Gap R2.5
IW-002	Timber Stud Frame, Direct Fix Plasterboard	128.90	No insulation

Floor type

Location	Construction	Area [m ²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage	Suspended Concrete Slab 150mm	34.49	Totally Open	No Insulation	Bare
Ldry	Suspended Concrete Slab 150mm	4.32	Open	Bulk Insulation in Contact with Floor R1.9	Ceramic Tiles 8mm
Kitchen/Living1	Suspended Concrete Slab 150mm	44.80	Open	Bulk Insulation in Contact with Floor R1.9	n Ceramic Tiles 8mm
Theatre	Suspended Concrete Slab 150mm	17.42	Open	Bulk Insulation ir Contact with Floor R1.9	Ceramic Tiles 8mm
Bedroom 1 / Garage	Timber Framed Timber Above Plasterboard 19mm	17.33		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm

0011907755 NatHERS Certificate

7 Star Rating as of 11 May 2025



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bedroom 1	Suspended Floor Timber Frame 19mm	1.63	Totally Open	Bulk Insulation in Contact with Floor R2.5	Carpet+Rubber Underlay 18mm
WIR2 / Garage	Timber Framed Timber Above Plasterboard 19mm	5.23		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
WIR2	Suspended Floor Timber Frame 19mm	0.59	Totally Open	Bulk Insulation in Contact with Floor R2.5	Carpet+Rubber Underlay 18mm
WIR1 / Garage	Timber Framed Timber Above Plasterboard 19mm	2.94		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
ENS / Garage	Timber Framed Timber Above Plasterboard 19mm	5.89		Bulk Insulation R2.5	Ceramic Tiles 8mm
ENS / Ldry	Timber Framed Timber Above Plasterboard 19mm	1.14		Bulk Insulation R2.5	Ceramic Tiles 8mm
Bathroom / Ldry	Timber Framed Timber Above Plasterboard 19mm	2.52		Bulk Insulation R2.5	Ceramic Tiles 8mm
Bathroom / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	3.70		Bulk Insulation R2.5	Ceramic Tiles 8mm
Bathroom / BUtlers	Timber Framed Timber Above Plasterboard 19mm	1.12		Bulk Insulation R2.5	Ceramic Tiles 8mm
Bedroom 4 / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	6.37		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Bedroom 4 / BUtlers	Timber Framed Timber Above Plasterboard 19mm	5.16		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Hallway / Garage	Timber Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Hallway / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	4.83		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Hallway / Living	Timber Framed Timber Above Plasterboard 19mm	2.17		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Void / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	0.01		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm

0011907755 NatHERS Certificate



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Void / Living	Timber Framed Timber Above Plasterboard 19mm	14.25		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Bedroom 3 / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	1.47		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Bedroom 3 / Theatre	Timber Framed Timber Above Plasterboard 19mm	13.81		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Bedroom 3 / Kitchen/Living1	Timber Framed Timber Above Plasterboard 19mm	12.90		Bulk Insulation R2.5	Carpet+Rubber Underlay 18mm
Living	Suspended Concrete Slab 150mm	24.79	Open	Bulk Insulation in Contact with Floor R1.9	60/40 Carpet 10mm/Ceramic
BUtlers	Suspended Concrete Slab 150mm	7.07	Open	Bulk Insulation in Contact with Floor R1.9	Ceramic Tiles 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Garage	Timber Framed Timber Above Plasterboard	Bulk Insulation R2.5	
Ldry	Timber Framed Timber Above Plasterboard	Bulk Insulation R2.5	
Kitchen/Living1	Plasterboard on Timber	Bulk Insulation R6	
Kitchen/Living1	Timber Framed Timber Above Plasterboard	Bulk Insulation R2.5	
Theatre	Plasterboard on Timber	Bulk Insulation R6	
Theatre	Timber Framed Timber Above Plasterboard	Bulk Insulation R2.5	
Bedroom 1	Plasterboard on Timber	Bulk Insulation R6	
WIR2	Plasterboard on Timber	Bulk Insulation R6	
WIR1	Plasterboard on Timber	Bulk Insulation R6	
ENS	Plasterboard on Timber	Bulk Insulation R6	
Bathroom	Plasterboard on Timber	Bulk Insulation R6	
Bedroom 4	Plasterboard on Timber	Bulk Insulation R6	
Hallway	Plasterboard on Timber	Bulk Insulation R6	
Void	Plasterboard on Timber	Bulk Insulation R6	

* Refer to glossary. Generated on 11 May 2025 using BERS Pro v5.2.4 (3.23) for 17 President Street , CROYDON PARK , NSW , 2133 0011907755 NatHERS Certificate 7 Star Rating as of 11 May 2025 **Bulk insulation R-value** Reflective Construction Location material/type (may include edge batt values) wrap* [yes/no] Void Plasterboard on Timber **Bulk Insulation R6** Bedroom 3 Plasterboard on Timber **Bulk Insulation R6** Bedroom 3 Plasterboard on Timber **Bulk Insulation R6** Timber Framed Timber Above Plasterboard **Bulk Insulation R2.5** Living **BUtlers** Timber Framed Timber Above Plasterboard Bulk Insulation R2.5

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Kitchen/Living1	10	Downlights - LED	150	Sealed
Kitchen/Living1	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Kitchen/Living1	2	1400
Bedroom 1	1	1400
Bedroom 4	1	1400
Bedroom 3	1	1400
Bedroom 3	1	1400

Roof type

Construction	Added insulation	Solar	Roof shade
	[R-value]	absorptance	[colour]
Roof Tiles Timber Frame	Foil, Gap Above, Reflective Side Down, Anti-glare Up	0.85	Dark

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]
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.

0011907755 NatHERS Certificate Cooling system	7 Star R	ating as of 11	May 2025				HOUS
Appliance/ system type	Loc	ation F	uel type	eff	nimum ciency/ ormance		mended acity
No Data Available							
Heating system							
Appliance/ system type	Loc	ation F	uel type	eff	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		ibstitution e ranges upper limit	Assessed daily load [litres]
No Data Available							
Pool/spa equipment							
				Minimu		Recomm	ended
Appliance/ system type		Fuel type		performa	-	capac	ity

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

Ammal energy load The predicted amount of energy required for heating and cooling, based on standard occupancy assumptions. Assessed floor area the floor area in the design documents. Ceiling penetrations features that require a penetration to the calling, including downlights, vents, exhaust fans, range hoods, chinneys and fluos. Common construction of the calling with small holes through the calling for wiring, e.g. celling fans, pendant lights, and beat the calling with small holes through the calling for wiring, e.g. celling fans, pendant lights, and construction of the calling with small holes through the calling of wiring, e.g. celling fans, pendant lights, and construction of the calling with a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will nobule gradges. Custom windows windows that are representative of a specific type of window product and whose properties have been derived by statistical methods. EFR Energy Efficiency Ratio, measure of now much cooling can be achieved by an air conditioner for a single Who of electricity input system homes rating without solar or betrieres. Entrance door these singly ventilation benefits in the modelling user, the environment and energy networks (as the society including but not limited, costast to the building user, the environment and energy networks (as the speciet callopories below). Exposure category – protected terrain with numerous, closely paced obstructions below 10m e.g. eaves, verandars, environment and energy networks (as theaves to the building in the informating and eatached (class 10 bu	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. Gelling penetrations Features that require a penetration to the colling, including downlights, vents, extaust fans, range hoods, chimneys and flues. The colling of the nathed in colling for wring, e.g. celling fans, chimneys and flues. COP Coefficient of performance a convertifier write attached to the celling with anile holes intrough the celling for wring, e.g. celling fans, condamit (bits, and eventifier). Conditioned a zone within a welling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages. Custom windows windows list are representative of a specific type of window product and whose properties have been derived by statistical minory withow. Default windows minory terms The second to society including, user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard). Energy value The is your homes rating without solar or batteries. Environment and energy networks (as defined in the ABCB Housing Provisions Standard). Exposure category – protected terrain with numerous, closely spaced obstructions wort 10 me, g. suburban housing, heavily wegetated bushad areas. Exposure category – protected terrain with numerous, closely spaced obstructions wort 10 me, g. suburban housing, heavily wegetated bushand areas.		
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 charamaticas it will include garages. Custom windows The net within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some charamaticas it will include garages. Default windows Window 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 for the singly 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 these signly ventilation baneling in the modelling software and must not be modeled as a door when opening to a minnelly ventilated baneling in the note structors below. Exposure ese exposure category = exposed terrain with no obstructors eg. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). Exposure category = protected terrain with we obstructions below. Exposure category = protected terrain with wo obstructors below. Exposure category = protected terrain with wo obstructors below. Exposure category = protected terrain with wo obstructons below.		the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the
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 finat are representative of a specific type of window product and whose properties have been derived by statistical including. ERR Energy Enciency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input. 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). Exposure the est sport of the ABCB Housing Provisions Standard). Exposure category – exposed terrain with work stat are integrity of the sport of the second state of the second state and the second with second state and the second state and the second state and state and the second state and state and the second state and st	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.
Continuities 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 input. EER Energy Efficiency Ratio, measure of how much ocoling 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 use The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard). Exposure category - exposed 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 category - protected terrain with non costructions at a similar height a g. grasslands with few well scattered obstructions below TOm, farmland with Exposure category - protected Exposure category - protected terrain with numerous, closely spaced obstructions below TOm, farmland with for upper levels. National Construction Code (NCC) Class 1, C 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcl.gov.au. National Construction Code (NCC) Class 1, C 4 buildings of a datached Class 10a buildings. Definitions can be found at www.abcl.gov.au. </th <th>COP</th> <th>Coefficient of performance</th>	COP	Coefficient of performance
Clustorie Scheme) 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 2Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input might Energy use This is your homes rating without solar or batteries. Energy value The net cast to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCD Housing Provisions Standard). Exposure see exposure categories below. Exposure see exposure categories below. Exposure category – exposed terrain with no obstructions e.g. flat grazing land, ocean-frontage, devent, abuilding land bane to a minimally exposure category – porticet Exposure category – notected terrain with numerous; closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bush holds, elevated units (e.g. abves 3 floors). National Construction Code the openability precentage or operable (moveable) area of doors owindows that is used in ventilation calculations. Antional Construction Code the openability precentage or operable (moveable) area of doors owindows that is used in ventilation calculations. Antional Conse serviced. an a some that chereves an actatrow energy value?	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.
Default with works 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 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 the ABCB Housing Provisions Standard). Exposure category – exposed terrain with no obstructions e.g. file and inclus to the modelled as a door when opening to a minimally ventilated corridor in a class 2 building. Exposure category – open terrain with no dostructions e.g. file and inclus the soft and the soft and the building in the horizontal plane, e.g. eaves, verandarbs, pergolas, carports, or overhangs or balconies terrain with numerous, closely spaced obstructions sever 10 m e.g. city and industrial areas. Horizontal shading feature the openability percentage or operable (moveable) area or swindows that is used in ventilation calculations. Net zero home a home that achieves a net zero energy value. Opening percentage the openability percentage or operable (moveable) area of own windows that is used in ventilation. an asst med value that does not represent an actual value. For example, if the wall cooling is unspecified on the contemendation and the final selection szing should be confinmed by a sultably qualified. <th>Custom windows</th> <th></th>	Custom windows	
Etch input ^{**} Construction Energy value 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 vertilation 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 category – 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 – protected terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). Exposure category – protected terrain with numerous, closely spaced obstructions over 10 me.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 the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1. 0 ar buildings. Definitions can be found at www.abcb.gova. Recommended capacity a home that achieves a net zero energy value*. Opening percentage the openaloiii phore function and use, and ass	Default windows	
Energy value The net cost is 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 The net cost is society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard). Exposure category = 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 new 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 over 10 m e.g. cluburban housing, heavily vegetated bushland areas. Exposure category = suburban housing feature therain with numerous, closely spaced obstructions over 10 m e.g. cluburban housing. Leavily vegetated bushland areas. National Construction Code the NCC groups buildings and attached Class 10a buildings. Definitions can be found at www.abc.gov.au. Nate on home a home that achieves a net zero energy value*. Opening percentage the optical metage or operable (moveabile) area of doors or windows that is used in venillation calculations. Recommended capacity <thable and="" area="" areas.<="" astread="" th=""> the wall cloby an</thable>	EER	
Linkty Variab 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 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 no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). Exposure category – protected terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegtetated bushland areas. Exposure category – protected terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas. Provisional shading feature from upper levels. Mational Construction Code 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 building. Definitions can be found at www.abcb.gov.au. Net zero home a home that achieves on or persent an actual value. Cree example, if the wall colour is unspecified in the documentation, an assumed value that does on or persent an actual value. Cree attal value. For example, if the wall colour is unspecified in the documentation, an assumed value that does on or persent an actual value. Cree targe should be confirmed by a suitably qualified person.	Energy use	
Link and book ventilated condor ventilated condor ventilated condor Exposure see exposure category – exposed Exposure category – open 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 no obstructions set as ininar height e.g. grasslands with few well scattered shearly vegetated bush looks, eleviated units (e.g. above 3 floors). Exposure category – protected terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas. Exposure category – suburban terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas. Notizonal Construction Code (NCC) Class terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas. Net zero home a home that achieves a net zero energy value*. Class 1, 2 or 4 buildings and attached Class 10 buildings. Definitions can be found at tww. abck gov.au. Provisional value a nome that achieves a net zero energy value*. an assumed value that does not represent an actual value. For example, if the wall colur is unspecified in the documentation, a provisional value of medium must be modelied. Acceptable provisional value en outlined in the NatHERS Technical Note and can be found at www. analters gov.au. Recommended capacity ris dualidid does not represent an actual value. For example, i	Energy value	defined in the ABCB Housing Provisions Standard).
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 no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). Exposure category – protected terrain with numerous, closely spaced obstructions over 10 m.e.g. city and industrial areas. Exposure category – suburban terrain with numerous, closely spaced obstructions over 10 m.e.g. city and industrial areas. Morizontal 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 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 10 ab uildings. Definitions can be found at www.abcb.gova.u. Opening percentage the once perable (movemable) area of doors or windows that is used in ventilation calculations. Provisional value a nome that achieves a net zero energy value [*] . Recommended capacity rs are duilongs on attached Class 10 ab uildings. Definitions can be found at www.mathers.gov.au this is the copacity 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.	Entrance door	ventilated corridor in a Class 2 building.
Exposure category – open terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with Exposure category – protected terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushbland areas. Exposure category – suburban terrain with numerous, closely spaced obstructions below 10m 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 National Construction Code 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 10 buildings. Definitions can be found at www.abc.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. an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value a provisional value. The statters's technical Note and the final selection sizing should be confirmed by a suitably qualified provisional values are outlined in the NatHERS technical Note service. This is a recommended to with an appropriate airgap and emissivity value, it provides foil) Reflective wrap (also known as roof lights) for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or simila		
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 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. an asumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation. a provisional value an asumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation. Recommended capacity this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zene or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person. can be applied to walls, roofs and cellings. When combined with an appropriate airgap and emissivity value, it provides shading	Exposure category – exposed	
Exposure category – suburban terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial area. 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 10 a buildings. Definitions can be found at www.abc.gov.au. Net zero home a home that achieves a net zero energy value*. Opening percentage the openability percentage or operable (moveable) erovisional values are outlined in the NatHERS technical Note and can be found at www.nathers.gov.au Recommended capacity an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation. a provisional value Reflective wrap (also known as foll) can be applied to walls, roofs and cellings. When combined with an appropriate airgap and emissivity value, it provides insulative properties. Shading features includes neighbouring buildings, forces, and wing walls, but excludes eaves. Skylight (also known as foll) 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, fonces, and wing walls, but excludes eave	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).
Horizontal shading feature provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies 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. 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 cellings. When combined with an appropriate airgap and emissivity value, it provides includes neighbouring buildings, fences, and wing walls, but excludes eaves. Skylight (also known as roof lights) 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 generaly does radifuser. StrCs Small-scale Technology Certificat		
National Construction Code (NCC) Class 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. an assumed value that does not represent an acual 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 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, forces, 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 celling 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	Exposure category – suburban	
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. Stocs Shading features Sitypically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.	-	from upper levels.
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 an existional 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 Reflective wrap (also known as coll is a popicitor 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 coll lights) can be applied to walls, roofs and ceilings. When combined with an appropriate airgap and emissivity value, it provides insulative properties. 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. Stolar 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 radiatin admitted through a	(NCC) Class	
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 recommended to NatHERS to achieve the desired comfort conditions in the insulative properties. 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. Stors 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, as polystyrene insulation sheeting or liastic strips		67
Provisional value 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 SHCC) 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	Opening percentage	
Recommended capacity zone or zone's 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) U-value the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. U-value the rate of heat transfer through a window. The lower the U-value, the better the insulating ability. Unconditioned a zone withi	Provisional value	a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note
foil) insulativé 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) u-value 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	Recommended capacity	zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified
Root window 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 (wing walls), fences, other buildings, vegetation (protected or listred heritage trees). Window		
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 building, vegetation (protected or listed heritage trees). Window shading device device fixed to windows that provides shading e.g. window awinings or screens but excludes horizontal* or ve	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.
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) 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. 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 building, 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	Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
StrCs 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 privacy screens, other walls in the building (wing walls), fences, other building, vegetation (protected or listed heritage trees). Window shading davide device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading	Skylight (also known as roof lights	
Original bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulator (CER) ¹ 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 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 building, vegetation (protected or listed heritage trees). Window shading davide device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading		subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar
Thermal breaks 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 building, vegetation (protected or listed heritage trees). Window shading dovice device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading	STCs	bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulator (CER)
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	Thermal breaks	but is not limited to, materials such as timber battens greater than or equal to 20mm thick or continuous thermal breaks such
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	U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Window shading device Device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading	Unconditioned	
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)	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)