Nationwide House Energy Rating Scheme® NatHERS® Certificate No. #HR-51T3GZ-01

Generated on 25 Jan 2025 using Hero 4.1 (Chenath v3.23)

Property

Address

Lot/DP

Unit 01, 267 VICTORIA STREET Taree, NSW, 2430 Lot 19/14 DP 3259

NCC Class* Floor/all Floors Type

1a 1 of 2 floors New

Plans

Main Plan Prepared by

CWC

Construction and environmen

18.11.24 REV C

Assessed floor a	rea (m²)
Conditioned*	59.1
Unconditioned*	5.6
Total	64.7
Garage	0.0

Exposure Type Suburban

NatHERS climate zone

15 - Williamtown AMO

ccredited assessor

Adam Clarke
10 Star Building Asses
admin@10sba.com
+61 481010999
101518
ABSA
No Conflict of Interest

Adam Clarke 10 Star Building Assessments admin@10sba.com +61 481010999 101518 ABSA

NCC Requirements

BCA provisions

Volume 2 Yes

State/Territory variation

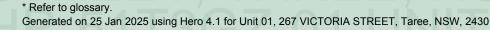
National Construction Code (NCC) requirements

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 J2D2(2)(a) and (3) 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

49.5 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	28.5	21.0
Load limits	45	31

Features determining load limits

G

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 http://www.hero-software.com au/pdf/HR-51T3GZ-01. When using either link. ensure you are visiting http://www.hero-software. com.au



NATIONWIDE HOUSE BUILDE

About the ratings

Thermal performance rating

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

Whole of Home performance rating

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

Heating and 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: 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

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar.

Energy use:



Greenhouse gas emissions:

Cost:





#HR-51T3GZ-01 NatHERS Certificate

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#HR-51T3GZ-01 NatHERS Certificate 7.1 Star Rating as of 25 Jan 2025 Certificate check Approval stage							
Approval	stage	Construc stage	tion				
essor checked	isent authority/ /eyor checked	der checked	sent authority/ veyor checked	Occupancy/other			
Ass	Cor	Bui	Cor	Ö			
	Approval Paysoa Sesses	Approvaluation Approvalon Approvalon	Approval stage stage	stage			

Roof			
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the ' <i>Roof type</i> ' table on this Certificate?			
Apartment entrance doors (NCC Class 2 assessments only)			
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.			
Exposure*			
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".			
Heating and cooling load limits*			
Do the load limits settings (shown on page 1) match what is shown on the NatHERS-stamped plans?			

7.1 Star Rating as of 25 Jan 2025



Certificate check	Approval stage		Construc stage	Partice Borton, science	
Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other

Additional NCC requirements for thermal performance (not included in the NatHERS assessment)

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 assessr	ment is no	ot conduc	cted)			
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 ' <i>Appliance schedule</i> ' on this Certificate?							
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?							
Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?							
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the ' <i>Appliance schedule</i> ' on this Certificate?							
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?							
Additional NCC Requirements for Services (not included in the NatHE	ERS asses	ssment)					
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. A include, but are not limited to: condensation, structural and fire safety requirements	dditional re and any st	quirements ate or territ	that must ory variatio	also be sat	tisfied ICC		

energy efficiency requirements.



Room schedule

Room	Zone Type	Area (m²)
BED 1	Bedroom	11.47
LDRY	Day Time	1.50
BED 2	Bedroom	9.85
ВАТН	Unconditioned	5.64
Stairs (UP)	Day Time	7.41
Stairs (Lower)	Day Time	4.21
KITCHEN	Kitchen/Living	27.63

Window and glazed door type and performance

Default* windows

Window ID	v ID Window Description	Maximum SHG0	SHGC substitution tolerance ranges
		U-value*	lower limit upper limit
None			

Custom* windows

Window ID	Window Description	Maximum U-value*	SHGC*	SHGC substitution tolerance ranges	
				lower limit	upper limit
AWS-005-011	RESIDENTIAL SERIES 514 DOUBLE HUNG - SINGLE GLAZED	4.50	0.54	0.51	0.57
AWS-013-004	RESIDENTIAL SERIES 541/542 SLIDING DOOR -DOUBLE GLAZED	3.43	0.57	0.54	0.60
AWS-019-042	RESIDENTIAL SERIES 549 ENTRY DOOR - DOUBLE GLAZED	3.23	0.41	0.39	0.43
AWS-066-002	RESIDENTIAL SERIES 516 FIXED WINDOW - SINGLE GLAZED	3.94	0.47	0.44	0.49

Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
BATH	AWS-066-002	1W06-B	900	755	Fixed	0	SE	None
BATH	AWS-005-011	1W06-A	900	755	Double Hung	45	SE	None
BED 1	AWS-005-011	1W05-C	900	803	Double Hung	45	SE	None



Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
BED 1	AWS-005-011	1W05-A	900	803	Double Hung	45	SE	None
BED 1	AWS-066-002	1W05-B	900	803	Fixed	0	SE	None
BED 2	AWS-005-011	1W07-C	900	803	Double Hung	45	SE	None
BED 2	AWS-005-011	1W07-A	900	803	Double Hung	45	SE	None
BED 2	AWS-066-002	1W07-B	900	803	Fixed	0	SE	None
KITCHEN	AWS-005-011	1W01-A	1800	703	Double Hung	45	NE	None
KITCHEN	AWS-066-002	1W01-B	1800	703	Fixed	0	NE	None
KITCHEN	AWS-005-011	1W02	1800	610	Double Hung	45	SE	None
KITCHEN	AWS-005-011	1W03	1800	610	Double Hung	45	SE	None
KITCHEN	AWS-013-004	1GD02	2100	2110	Sliding Door	45	SE	None
KITCHEN	AWS-019-042	1DG01	2050	920	Hinged Door	90	SW	None
Stairs (Lower)	AWS-005-011	W01-C	1800	703	Double Hung	45	NE	None
Stairs (UP)	AWS-066-002	1W04	1200	610	Fixed	0	NE	None

Roof window type and performance value

Default* roof windows

Window ID	Window Description	Maximum U-value* SHGC	SHGC substitution * tolerance ranges
		0-value	lower limit upper limit
None			
Custom* roof v	vindows		
Window ID	Window Description	Maximum SHGC	SHGC substitution * tolerance ranges
	·	U-value*	lower limit upper limit
None			

Roof window schedule

Location	Window	Window	Opening	Height	Width	Orient-	Outdoor	Indoor
	ID	no.	%	(mm)	(mm)	ation	shade	shade
None								

Skylight type and performance

Skylight ID	Skylight description
None	

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m²)	Orient- ation	Outdoor shade	Diffuser	Shaft Reflectance
None								
Externa	l door sc	hedule						
Location			Height	(mm)	Width (mm) C)pening %	Orientation

None

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
BV-NONREFL-CAV	Brick Veneer Stud Wall with Non-Reflective Sarking	0.50	Medium	2.70	No
CSR-2405	CSR-2405	0.50	Medium	4.00	No
PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)	0.50	Medium	2.70	No

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
BATH	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2440	2460	SE	411	Yes
BATH	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2440	978	SW	409	Yes
BATH	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2440	463	SE	403	Yes
BED 1	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2140	3810	NE	382	Yes
BED 1	PrimeLine™ weatherboard, Scyon™ Stria™ cladding & Scyon™ Linea™ weatherboard (DF)1	2440	3010	SE	402	No

NATION WIDE HELOUISE

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
BED 1	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2440	627	SW	382	Yes
BED 2	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2440	2995	SE	403	Yes
BED 2	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2075	3288	SW	422	Yes
KITCHEN	BV-NONREFL-CAV	2440	3810	NE	318	Yes
KITCHEN	BV-NONREFL-CAV	2440	6609	SE	430	Yes
KITCHEN	BV-NONREFL-CAV	2440	1136	SW	1486	Yes
KITCHEN	BV-NONREFL-CAV	2440	3757	SW	5403	Yes
Stairs (Lower)	BV-NONREFL-CAV	2440	4248	NW	3752	Yes
Stairs (Lower)	BV-NONREFL-CAV	2440	991	NE	318	Yes
Stairs (UP)	PrimeLine [™] weatherboard, Scyon [™] Stria [™] cladding & Scyon [™] Linea [™] weatherboard (DF)1	2010	991	NE	382	Yes
Stairs (UP)	CSR-2405	2440	659	NW	2991	Yes

Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
CSR-2405	CSR-2405	27.3	4.00
INT-PB	Internal Plasterboard Stud Wall	13.1	2.00
INT-PB	Internal Plasterboard Stud Wall	2.7	2.70
INT-PB	Internal Plasterboard Stud Wall	26.0	0.00

Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
BATH	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	5.1	N/A	0.15	Tile (8mm)



Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
BATH	LT-CONC-SUBFLR-35-LINED: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC) - Lined Below	0.5	N/A	4.00	Tile (8mm)
BED 1	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	11.5	N/A	0.15	Carpet
BED 2	LT-CONC-SUBFLR-35-LINED: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC) - Lined Below	9.8	N/A	4.00	Carpet
KITCHEN	CSOG-125: Concrete Slab on Ground (125mm)	27.6	N/A	0.00	Tile (8mm)
LDRY	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	1.0	N/A	0.15	Tile (8mm)
LDRY	LT-CONC-SUBFLR-35-LINED: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC) - Lined Below	0.5	N/A	4.00	Tile (8mm)
Stairs (Lower)	CSOG-125: Concrete Slab on Ground (125mm)	4.2	N/A	0.00	Tile (8mm)
Stairs (UP)	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	3.2	N/A	0.15	Timber (12mm)
Stairs (UP)	LT-CONC-SUBFLR-35: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC)	3.8	N/A	0.15	Carpet
Stairs (UP)	LT-CONC-SUBFLR-35-LINED: Lightweight Concrete Subfloor Panel 35mm (as 42mm FC) - Lined Below	0.5	N/A	4.00	Carpet

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
BATH	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
BED 1	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
BED 2	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
KITCHEN	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
KITCHEN	FLAT-03: Flat Framed / Skillion Tile Roof & Flat PB Ceiling	4.00	Yes
LDRY	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
Stairs (Lower)	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
Stairs (UP)	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed



Ceiling *penetrations**

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
BATH	1	Exhaust Fan	350	Sealed
BATH	2	Downlight	100	Sealed
BED 1	3	Downlight	100	Sealed
BED 2	2	Downlight	100	Sealed
KITCHEN	1	Exhaust Fan	250	Sealed
KITCHEN	6	Downlight	100	Sealed
LDRY	1	Exhaust Fan	250	Sealed
LDRY	1	Downlight	100	Sealed
Stairs (Lower)	1	Downlight	100	Sealed
Stairs (UP)	2	Downlight	100	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
BED 1	1	1300
BED 2	1	1300
KITCHEN	1	1500

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	1.30	0.50	Medium
FLAT-03: Flat Framed / Skillion Tile Roof & Flat PB Ceiling	1.30	0.50	Medium

Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions	Frame spacing	Steel thickness	Thermal Break
	(height x width, mm)	(mm)	(BMT mm)	(R-value)
None				

Appliance schedule

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



Cooling system

Туре	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Home Data				

Heating system

Туре	Location	Fuel Type eff	ficiency /	ecommended apacity
No Whole of Hor	ne Data			

Hot water system

Туре	Fuel type	Hot Water CER Zone	Minimum efficiency / STC	Assessed daily load [litres]
No Whole of Home Data				
Pool / spa equipment				
Туре	Fuel type	Minimum efficiency / performance		Recommended capacity
No Whole of Home Data				

Onsite Renewable Energy schedule

Туре	Orientatation	Generation Capacity [kW]
No Whole of Home Data		

Battery schedule

Туре	
No Whole of Home Data	

Storage Capacity [kWh]



Explanatory Notes

About this report

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

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

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

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

Accredited assessors

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

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

Glossary

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.

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
COP	Coefficient of performance
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure	see exposure categories below
Exposure category - exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category - open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category - suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category - protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate 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.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
STCs	Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small scale Renewable Energy Scheme operated by the Clean Energy Regulatory
Thermal breaks	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels.
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).
Window shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)

* Refer to glossary.