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

Generated on 02 Dec 2024 using Hero 4.1 (Chenath v3.23)

Property

Address Lot/DP NCC Class* Floor/all Floors Туре

Unit 01, 32 Golf Avenue, Mona Vale, NSW, 2103 SP57603 2 of 1 floors New

Plans

Main Plan Prepared by For 4.55 Approval 25.11.2024 Rev C Walsh Architects (BSA20140)

Construction and environment

ea (m²)
148.6
0.0
148.6
0.0

Exposure Type Suburban NatHERS climate zone 56 - Mascot AMO

ccredited assessor

Name **Business name** Email Phone Accreditation No. Assessor Accrediting Organisation **Declaration of interest** Krzysztof Kwiatkowski

Building Sustainability Assessments enguiries@buildingsustainability.net.au +61 413626023 DMN/24/2214 DMN

No Conflict of Interest

NCC Requirements

BCA provisions State/Territory variation Volume 1 Yes

National Construction Code (NCC) requirements

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

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Thermal performance star rating



The more stars

the more energy efficient

19.8 MJ/m²

R

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	12.7	7.0
Load limits	33	20

Features determining load limits

Floor type	
(lowest conditioned area)	CSC
NCC climate zone 1 or 2	Ν
Outdoor living area	Ν
Outdoor living area ceiling fa	n N

C	SOG
Ν	
Ν	
1.4	

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

com.au

To verify this certificate, scan the QR code or visit http://www.hero-software.com au/pdf/HR-UXNMSJ-01 When using either link. ensure you are visiting http://www.hero-software.



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ATTONIVE HOUSE

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:





8.1 Star Rating as of 02 Dec 2024



Certificate check	Approva	Approval stage		age Construction stage	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Asses	Consent surveyor	Builde	Conse surve)	Occup
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check					
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS- stamped plans or as installed match what is shown in <i>'Window and glazed door</i> <i>schedule'</i> and <i>'Roof window schedule'</i> tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the ' <i>External wall type table</i> ' 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 <i>'Floor type'</i> table on this certificate?					
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the <i>'Ceiling type'</i> table on this Certifi cate?					
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?					

8.1 Star Rating as of 02 Dec 2024



Certificate check	Approval	stage	Construc stage	tion	
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 Home	e assessr	nent is no	ot 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 ' <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	RS 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					

energy efficiency requirements.

Additional Notes

- The information below is provided by Building Sustainability Assessments.
- Assessments are conducted in accordance with the BASIX Thermal Comfort Protocol and the NatHERS Technical Note.

- If this assessment is based on Development Application (DA) documentation then it is recommended that the assessment be reviewed when Construction Certificate (CC) documents are available. Assessments based on the minimum plan requirements suitable only for a DA should not be relied upon for a CC application. A re-assessment at CC stage may be necessary to include details not available at DA stage.

- Where information is not shown on the plans for details of ceiling penetrations, floor coverings, wall and roof colours, waffle pod thickness, window operability & neighbouring buildings the values required by the NatHERS Technical note have been applied. Be aware that these provisional values are often worse case and may adversely affect the assessment. Type in the text you would like to paste into any windows control i.e. edit boxes, word documents etc.

Room schedule

Room	Zone Type	Area (m²)
Guest Bed	Bedroom	15.78
BED 2	Bedroom	15.92
BED 3	Bedroom	12.12
Liv Kit	Kitchen/Living	72.74
B1 Ens	Night Time	8.67
BED 1	Bedroom	23.43

Window and glazed door type and performance

Default* windows

Window ID Wind	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges	
	·	U-value*		lower limit	upper limit
ALM-003-03 A	Aluminium A DG Air Fill High Solar Gain low-E -Clear	4.30	0.47	0.45	0.49
ALM-004-03 A	Aluminium B DG Air Fill High Solar Gain low-E -Clear	4.30	0.53	0.50	0.56

Custom* windows

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

None

Window and glazed door schedule

Location	Window	Window	Height	Width	Window	Opening	Orient-	Shading
	ID	no.	(mm)	(mm)	type	%	ation	device*
B1 Ens	ALM-004-03 A	W02	600	1900	Sliding	45	NW	None





Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
BED 1	ALM-004-03 A	W03	2700	3200	Sliding Door	66	NW	None
BED 2	ALM-003-03 A	W10	2700	1050	Awning	60	W	None
BED 3	ALM-004-03 A	W01	2700	2400	Sliding Door	45	NW	None
Guest Bed	ALM-003-03 A	W05	900	1200	Awning	90	SE	None
Guest Bed	ALM-004-03 A	W06	900	1200	Fixed	0	SE	None
Liv Kit	ALM-004-03 A	W04	900	1050	Fixed	0	SE	None
Liv Kit	ALM-003-03 A	W07	900	1000	Awning	90	SE	None
Liv Kit	ALM-004-03 A	W08	2700	3300	Sliding Door	66	SW	None
Liv Kit	ALM-004-03 A	W09	2700	1200	Fixed	0	SW	None

Roof window type and performance value

Default* roof windows

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

Custom* roof windows

Window ID	Window Description	Maximum U-value*	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	Skylight	Skylight shaft	Area	Orient-	Outdoor	Diffuser	Shaft
	ID	No.	length (mm)	(m²)	ation	shade	Dilluser	Reflectance

* Refer to glossary. Generated on 02 Dec 2024 using Hero 4.1 for Unit 01, 32 Golf Avenue, Mona Vale, NSW, 2103



Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m²)	Orient- ation	Outdoor shade	Diffuser	Shaft Reflectance
None								

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
Liv Kit	2400	920	100	SE

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
CAV-BRICK-110-110-EXP	Cavity Brick Wall - 110mm/110mm Exposed	0.50	Medium	1.00	No
FC-NOCAV	Fibre-Cement Clad Direct-Fix (No Cavity) Stud Wall	0.50	Medium	2.50	No

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
B1 Ens	CAV-BRICK-110-110-EXP	2700	2160	NW		Yes
B1 Ens	CAV-BRICK-110-110-EXP	2700	461	NE		Yes
BED 1	CAV-BRICK-110-110-EXP	2700	3271	NW		Yes
BED 1	CAV-BRICK-110-110-EXP	2700	5944	SW	6760	Yes
BED 2	FC-NOCAV	2700	1177	W		Yes
BED 2	CAV-BRICK-110-110-EXP	2700	1595	Ν		Yes
BED 2	CAV-BRICK-110-110-EXP	2700	1054	NW		Yes
BED 3	CAV-BRICK-110-110-EXP	2700	3099	NW		Yes
Guest Bed	CAV-BRICK-110-110-EXP	2700	4417	SE	2089	Yes
Guest Bed	CAV-BRICK-110-110-EXP	2700	2705	NE	18562	Yes
Liv Kit	CAV-BRICK-110-110-EXP	2700	2351	NW	5405	Yes
Liv Kit	CAV-BRICK-110-110-EXP	2700	8672	SE	2076	Yes
Liv Kit	CAV-BRICK-110-110-EXP	2700	4296	SW	2120	Yes
Liv Kit	CAV-BRICK-110-110-EXP	2700	994	SE	4388	Yes
Liv Kit	CAV-BRICK-110-110-EXP	2700	1868	SW	1126	No



Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
CONC-200-PB	Precast 200mm Concrete - Plasterboard Internally	23.4	1.00
INT-PB	Internal Plasterboard Stud Wall	88.9	0.00

Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
B1 Ens	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	8.7	N/A	2.50	Tile (8mm)
BED 1	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	23.4	N/A	2.50	Timber (12mm)
BED 2	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	15.9	N/A	2.50	Timber (12mm)
BED 3	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	12.1	N/A	2.50	Timber (12mm)
Guest Bed	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	15.8	N/A	2.50	Timber (12mm)
Liv Kit	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	58.6	N/A	2.50	Tile (8mm)
Liv Kit	CSOG-200: Concrete Slab on Ground (200mm)	0.9	N/A	0.00	Tile (8mm)
Liv Kit	SUSP-CONC-200-LINED: Suspended Concrete Slab Floor (200mm) - Lined Below	13.2	N/A	2.50	Timber (12mm)

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
B1 Ens	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	5.00	No
BED 1	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	5.00	No
BED 3	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	5.00	No
Guest Bed	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	5.00	No
Liv Kit	SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	5.00	No

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
B1 Ens	2	Downlight	200	Sealed
B1 Ens	1	Exhaust Fan	350	Sealed



Ceiling *penetrations**

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
BED 1	8	Downlight	200	Sealed
BED 2	3	Downlight	100	Sealed
BED 3	1	Downlight	200	Sealed
Guest Bed	5	Downlight	100	Sealed
Liv Kit	10	Downlight	200	Sealed
Liv Kit	1	Exhaust Fan	350	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
BED 1	1	900
BED 2	1	900
BED 3	1	900
Guest Bed	1	900

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
SLAB-200-CEIL-01: Concrete Slab (200mm) with Suspended PB Ceiling	0.00	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)
Wall	90 x 40	600	0.75	No

Appliance schedule

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

Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
			Location Fuel Type efficiency / performance Location Fuel Type Minimum efficiency /

* Refer to glossary.

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Heating system

Туре	Location		Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Home Data					
Hot water system		Hot	Minim	um	Assessed

		ΠΟΙ	WIIIIIII	Assesseu	
Туре	Fuel type	Water CER Zone	efficiency / STC	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		

Storage Capacity [kWh]

Battery schedule

Type No Whole of Home Data



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.

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