

# Nationwide House Energy Rating Scheme

## NatHERS Certificate No. Q02UVI4M76

Generated on 13 Feb 2025 using FirstRate5: 5.3.2b (3.21)

### Property

**Address** 17 Capella Street, Balwyn North, VIC, 3104  
**Lot/DP** -  
**NCC Class\*** Class 1a  
**Type** New Home

### Plans

**Main plan** 17CSB24  
**Prepared by** Axiom Plus



### Construction and environment

<b>Assessed floor area (m²)*</b>		<b>Exposure type</b>
Conditioned*	409.9	suburban
Unconditioned*	49.8	<b>NatHERS climate zone</b>
Total	459.7	62 Moorabbin Airport
Garage	40.5	

### Thermal performance

<b>Heating</b>	<b>Cooling</b>
<b>103.7</b>	<b>21.1</b>
<b>MJ/m²</b>	<b>MJ/m²</b>

### About the rating

NatHERS software models the expected thermal energy loads using information about the design and construction, climate and common patterns of household use. The software does not take into account appliances, apart from the airflow impacts from ceiling fans.

### Verification

To verify this certificate, scan the QR code or visit <https://www.fr5.com.au/QRCodeLanding?PublicId=Q02UVI4M76> When using either link, ensure you are visiting [www.FR5.com.au](http://www.FR5.com.au).



### Accredited assessor

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<b>Accreditation No.</b>	101540
<b>Assessor Accrediting Organisation</b>	ABSA
<b>Declaration of interest</b>	Declaration completed: no conflicts

### National Construction Code (NCC) requirements

The NCC's requirements for NatHERS-rated houses are detailed in 3.12.0(a)(i) and 3.12.5 of the NCC Volume Two. For apartments the requirements are detailed in J0.2 and J5 to J8 of the NCC Volume One.

In NCC 2019, these requirements include minimum star ratings and separate heating and cooling load limits that need to be met by buildings and apartments through the NatHERS assessment. Requirements additional to the NatHERS assessment that must also be satisfied include, but are not limited to: insulation installation methods, thermal breaks, building sealing, water heating and pumping, and artificial lighting requirements. The NCC and NatHERS Heating and Cooling Load Limits (Australian Building Codes Board Standard) are available at [www.abcb.gov.au](http://www.abcb.gov.au).

State and territory variations and additions to the NCC may also apply.

\* Refer to glossary.



Certificate Check

Ensure the dwelling is designed and then built as per the NatHERS Certificate. While you need to check the accuracy of the whole Certificate, the following spot check covers some important items impacting the dwelling’s rating.

Genuine certificate

Does this Certificate match the one available at the web address or QR code in the verification box on the front page?  
Does the set of NatHERS-stamped plans for the dwelling have a Certificate number on the stamp that matches this Certificate?

Ceiling penetrations\*

Does the ‘number’ and ‘type’ of ceiling penetrations (e.g. downlights, exhaust fans, etc) shown on the stamped plans or installed, match what is shown in this Certificate?

Windows

Does the installed window meet the substitution tolerances (SHGC and U-value) and window type, of the window shown on this Certificate? Substituted values must be based on the Australian Fenestration Rating Council (AFRC) protocol.

Apartment entrance doors

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 level (terrain) been applied? For example, it is unlikely that a ground-floor apartment is “exposed” or a top floor high-rise apartment is “protected”.

Provisional\* values

Have provisional values been used in the assessment and, if so, noted in “additional notes” below?

Additional Notes

- AFRC defaults only, no window splits to account for fixed panes
- All downlights and exhaust fans that penetrate the ceiling must be sealed
- Assumed Door & Window Head Heights as per plans
- Neighbours have been assumed as per NatHERS Technical Note - Version June 2019
- Any revision will be subject to review and may require an amendment
- Thermal Requirements have been assessed in accordance with the colour selection supplied by the client
- Thermal Requirements have been approved by the client

Window and glazed door *type and performance*

Default\* windows

Window ID	Window description	Maximum U-value*	SHGC*	Substitution tolerance ranges	
				SHGC lower limit	SHGC upper limit
ALM-005-03 A	Aluminium A DG Argon Fill High Solar Gain low-E -Clear	4.1	0.47	0.45	0.49
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E -Clear	4.1	0.52	0.49	0.55

Custom\* windows

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

## Window and glazed door *Schedule*

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Garage	ALM-005-03 A	D.3	2340	820	casement	90.0	WSW	No
Guest Bed	ALM-005-03 A	W10	1800	2400	awning	30.0	SSE	No
Guest Ensuite	ALM-005-03 A	W9	1500	750	awning	90.0	SSE	No
Kitchen/Living	ALM-006-03 A	W6	780	4510	fixed	0.0	NNW	No
Kitchen/Living	ALM-005-03 A	W7	2040	2400	other	90.0	WSW	No
Kitchen/Living	ALM-005-03 A	D.8	2950	1800	casement	90.0	WSW	No
Kitchen/Living	ALM-006-03 A	W8	2950	3250	sliding	45.0	WSW	No
Butlers	ALM-005-03 A	W5	780	2945	awning	45.0	NNW	No
Laundry	ALM-005-03 A	D.4	2700	820	casement	90.0	NNW	No
Laundry	ALM-005-03 A	W4	780	2300	awning	45.0	NNW	No
Entry/Lounge	ALM-005-03 A	D16	2950	1760	casement	90.0	SSE	No
Entry/Lounge	ALM-006-03 A	W11	2950	920	fixed	0.0	SSE	No
Entry/Lounge	ALM-006-03 A	W11	2950	920	fixed	0.0	SSE	No
Entry/Lounge	ALM-005-03 A	W1	2650	2690	awning	20.0	ENE	No
Entry/Lounge	ALM-006-03 A	W2	2650	962	fixed	0.0	NE	No
Entry/Lounge	ALM-006-03 A	W3	2950	3640	fixed	0.0	NNW	No
Gym	ALM-005-03 A	W18	2200	1800	awning	30.0	NNW	No
Master Bed	ALM-006-03 A	W19	2500	3940	sliding	30.0	WSW	No
Master Bed	ALM-006-03 A	W20	2350	962	fixed	0.0	SSW	No
Master Bed	ALM-006-03 A	W21	2370	920	fixed	0.0	SSE	No
Master WIR	ALM-006-03 A	W22	2220	900	fixed	0.0	WSW	No
Master Ensuite	ALM-006-03 A	W23	1300	1800	awning	45.0	SSE	No
Study	ALM-005-03 A	W24	1600	1200	awning	90.0	SSE	No
Bed 3 Ensuite	ALM-005-03 A	W25	1600	900	awning	90.0	SSE	No
Bed 3 WIR	ALM-005-03 A	W26	1600	900	awning	90.0	SSE	No
Bed 2	ALM-006-03 A	W14	2350	962	fixed	0.0	SE	No
Bed 2	ALM-005-03 A	W15	2350	2660	awning	20.0	ENE	No
Bed 2 Ensuite	ALM-005-03 A	W16	1400	900	awning	90.0	NNW	No
Bed 3	ALM-006-03 A	W12	2500	2880	sliding	45.0	ENE	No
Stairs/Retreat	ALM-005-03 A	D21	2500	820	casement	90.0	ENE	No
Stairs/Retreat	ALM-006-03 A	W13	2500	800	fixed	0.0	ENE	No
Stairs/Retreat	ALM-006-03 A	W3	2700	3640	fixed	0.0	NNW	No
Stairs/Retreat	ALM-005-03 A	W17	1600	3000	awning	45.0	NNW	No

## Roof window *type and performance value*

Default\* roof windows

Substitution tolerance ranges



Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Available					

Custom\* roof windows

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

Roof window schedule

Location	Window ID	Window no.	Opening %	Area (m²)	Orientation	Outdoor shade	Indoor shade
No Data Available							

Skylight type and performance

Skylight ID	Skylight description
No Data Available	

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m²)	Orient-ation	Outdoor shade	Diffuser	Skylight shaft reflectance
No Data Available								

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
Garage	2200	4800	100.0	ENE
Entry/Lounge	2700	1800	100.0	ENE

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
1	FR5 - Double Brick	0.5	Medium		No
2	FR5 - Brick Veneer	0.5	Medium		No
3	EMPIRE - Brick Veneer 2.5 (Rendered)	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	Yes
4	EMPIRE - Brick Veneer 2.5	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	Yes
5	EMPIRE - AAC w/20mm batten & 2.5	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	Yes

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Garage	1	3050	2025	SSE	2023	Yes
Garage	1	3050	271	SSE	289	Yes
Garage	1	3050	296	ESE	499	Yes
Garage	1	3050	311	E	3065	No
Garage	1	3050	5568	ENE	0	No

\* Refer to glossary.



Garage	1	3050	6602	NNW	0	Yes
Garage	2	3050	2020	WSW	0	Yes
Guest Bed	3	2950	4009	SSE	0	No
Guest Bed	3	2950	323	ENE	0	Yes
Guest Ensuite	3	2950	3362	SSE	0	No
Kitchen/Living	3	2950	6534	SSE	0	No
Kitchen/Living	3	2950	6538	NNW	0	Yes
Kitchen/Living	3	2950	11285	WSW	3976	Yes
Butlers	3	2950	3716	NNW	0	Yes
Laundry	3	2950	610	ENE	0	Yes
Laundry	3	2950	3593	NNW	0	Yes
Entry/Lounge	3	2950	5217	SSE	0	Yes
Entry/Lounge	4	2950	812	WSW	0	Yes
Entry/Lounge	4	2950	5103	SSE	0	No
Entry/Lounge	4	2950	3775	ENE	878	No
Entry/Lounge	4	2950	883	NE	2773	Yes
Entry/Lounge	4	2950	1399	NNW	2024	Yes
Entry/Lounge	4	2950	2382	ENE	2728	Yes
Entry/Lounge	5	2950	4366	NNW	0	Yes
Gym	5	2700	2987	NNW	550	Yes
Master Bed	5	2700	6809	NNW	550	No
Master Bed	5	2700	4794	WSW	2562	Yes
Master Bed	5	2700	930	SSW	2818	Yes
Master Bed	5	2700	1476	SSE	550	Yes
Master WIR	5	2700	5588	SSE	550	Yes
Master WIR	5	2700	2216	WSW	550	Yes
Master Ensuite	5	2700	4391	SSE	550	Yes
Study	5	2700	2085	SSE	550	Yes
Bed 3 Ensuite	5	2700	3340	SSE	550	Yes
Bed 3 WIR	5	2700	3514	SSE	550	Yes
Bed 2	5	2700	961	SSE	6784	Yes
Bed 2	5	2700	987	SE	0	Yes
Bed 2	5	2700	3510	ENE	550	Yes
Bed 2	5	2700	3810	NNW	550	Yes
Bed 2 Ensuite	5	2700	2970	NNW	550	Yes
Bed 3	5	2700	2082	WSW	550	Yes
Bed 3	5	2700	4488	SSE	550	No
Bed 3	5	2950	3901	ENE	2276	Yes
Stairs/Retreat	5	2700	2070	ENE	0	Yes
Stairs/Retreat	5	2700	4373	NNW	550	Yes
Stairs/Retreat	5	2700	1179	WSW	550	Yes

Stairs/Retreat	5	2700	630	ENE	1473	Yes
Stairs/Retreat	5	2700	4430	NNW	550	Yes
Lift 2	5	2700	1695	NNW	1238	Yes

## Internal wall type

Wall ID	Wall type	Area (m <sup>2</sup> )	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	333.2	
2	EMPIRE - Internal Wall 2.5	47.7	Glass fibre batt: R2.5 (R2.5)

## Floor type

Location	Construction	Area (m <sup>2</sup> )	Sub-floor ventilation	Added insulation (R-value)	Covering
Garage	FR5 - CSOG: Slab on Ground	11.8	Enclosed	R0.0	none
Garage	FR5 - CSOG: Slab on Ground	28.7	Enclosed	R0.0	none
Guest Bed	FR5 - CSOG: Slab on Ground	6.9	Enclosed	R2.3	Carpet
Guest Bed	FR5 - CSOG: Slab on Ground	9	Enclosed	R2.3	Carpet
Guest Ensuite	FR5 - CSOG: Slab on Ground	5.7	Enclosed	R2.3	Tiles
Guest WIR	FR5 - CSOG: Slab on Ground	1	Enclosed	R2.3	Carpet
Guest WIR	FR5 - CSOG: Slab on Ground	4.2	Enclosed	R2.3	Carpet
Kitchen/Living	FR5 - 150mm concrete slab	54.5	Enclosed	R2.3	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	6.1	Enclosed	R2.3	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	15	Enclosed	R2.3	Tiles
Butlers	FR5 - CSOG: Slab on Ground	3.5	Enclosed	R2.3	Tiles
Butlers	FR5 - CSOG: Slab on Ground	6.8	Enclosed	R2.3	Tiles
Store	FR5 - CSOG: Slab on Ground	3.2	Enclosed	R2.3	Timber
PWD	FR5 - CSOG: Slab on Ground	3.5	Enclosed	R2.3	Tiles
Lift 1	FR5 - CSOG: Slab on Ground	2.1	Enclosed	R2.3	Timber
Laundry	FR5 - CSOG: Slab on Ground	4.2	Enclosed	R2.3	Tiles
Laundry	FR5 - CSOG: Slab on Ground	5.1	Enclosed	R2.3	Tiles
Entry/Lounge	FR5 - CSOG: Slab on Ground	66.9	Enclosed	R2.3	Timber
Entry/Lounge	FR5 - CSOG: Slab on Ground	4.7	Enclosed	R2.3	Timber
Entry/Lounge	FR5 - CSOG: Slab on Ground	9.6	Enclosed	R2.3	Timber
Hall	FR5 - CSOG: Slab on Ground	21.8	Enclosed	R2.3	Timber
Gym	FR5 - Timber Lined	9.7	Enclosed	R3.0	Carpet
Master Bed	FR5 - Timber Lined	10.4	Elevated	R3.0	Carpet
Master Bed	FR5 - Timber Lined	26.4	Enclosed	R3.0	Carpet
Master WIR	FR5 - Timber Lined	15.9	Enclosed	R3.0	Carpet
Master Ensuite	FR5 - Timber Lined	12.6	Enclosed	R3.0	Tiles
Study	FR5 - Timber Lined	5.1	Enclosed	R3.0	Carpet
Bed 3 Ensuite	FR5 - Timber Lined	6.1	Enclosed	R3.0	Tiles
Bed 3 WIR	FR5 - Timber Lined	6.4	Enclosed	R3.0	Carpet
Store 2	FR5 - Timber Lined	2.2	Enclosed	R3.0	Carpet



Bed 2 Robe	FR5 - Timber Lined	2.8	Enclosed	R3.0	Carpet
Bed 2	FR5 - Timber Lined	0.3	Elevated	R3.0	Carpet
Bed 2	FR5 - Timber Lined	15.3	Enclosed	R3.0	Carpet
Bed 2 Ensuite	FR5 - Timber Lined	6.7	Enclosed	R3.0	Tiles
Bed 3	FR5 - Timber Lined	17.5	Enclosed	R3.0	Carpet
Stairs/Retreat	FR5 - Timber Lined	1.8	Elevated	R3.0	Carpet
Stairs/Retreat	FR5 - Timber Lined	63.8	Enclosed	R3.0	Carpet
Lift 2	FR5 - Timber Lined	4.4	Enclosed	R3.0	Carpet

## Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Garage	Plasterboard	R6.0	Yes
Garage	FR5 - Timber Lined	R3.0	No
Guest Bed	FR5 - Timber Lined	R3.0	No
Guest Bed	Plasterboard	R6.0	Yes
Guest Ensuite	Plasterboard	R6.0	Yes
Guest WIR	Plasterboard	R6.0	Yes
Guest WIR	FR5 - Timber Lined	R3.0	No
Kitchen/Living	FR5 - Timber Lined	R3.0	No
Kitchen/Living	Plasterboard	R6.0	Yes
Kitchen/Living	Plasterboard	R6.0	Yes
Butlers	Plasterboard	R6.0	Yes
Butlers	FR5 - Timber Lined	R3.0	No
Store	FR5 - Timber Lined	R3.0	No
PWD	FR5 - Timber Lined	R3.0	No
Lift 1	FR5 - Timber Lined	R3.0	No
Laundry	Plasterboard	R6.0	Yes
Laundry	FR5 - Timber Lined	R3.0	No
Entry/Lounge	FR5 - Timber Lined	R3.0	No
Entry/Lounge	Plasterboard	R6.0	Yes
Entry/Lounge	Plasterboard	R6.0	Yes
Hall	FR5 - Timber Lined	R3.0	No
Gym	Plasterboard	R6.0	No
Master Bed	Plasterboard	R6.0	No
Master Bed	Plasterboard	R6.0	No
Master WIR	Plasterboard	R6.0	No
Master Ensuite	Plasterboard	R6.0	No
Study	Plasterboard	R6.0	No
Bed 3 Ensuite	Plasterboard	R6.0	No
Bed 3 WIR	Plasterboard	R6.0	No
Store 2	Plasterboard	R6.0	No

Bed 2 Robe	Plasterboard	R6.0	No
Bed 2	Plasterboard	R6.0	No
Bed 2 Ensuite	Plasterboard	R6.0	No
Bed 3	Plasterboard	R6.0	No
Stairs/Retreat	Plasterboard	R6.0	No
Stairs/Retreat	Plasterboard	R6.0	No
Lift 2	Plasterboard	R6.0	No

### Ceiling penetrations\*

Location	Quantity	Type	Diameter (mm)	Sealed/unsealed
Guest Ensuite	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	200	Sealed
Butlers	1	Exhaust Fans	200	Sealed
PWD	1	Exhaust Fans	300	Sealed
Master Ensuite	1	Exhaust Fans	300	Sealed
Bed 3 Ensuite	1	Exhaust Fans	300	Sealed
Bed 2 Ensuite	1	Exhaust Fans	300	Sealed

### Ceiling fans

Location	Quantity	Diameter (mm)
No Data Available		

### Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Framed:Flat - Flat Framed (Metal Deck)	0.0	0.5	Medium
Disc:Attic-Discontinuous	0.0	0.5	Medium





Explanatory Notes

About this report

A NatHERS rating is a comprehensive, dynamic computer modelling evaluation of a home, using the floorplans, elevations and specifications to estimate an energy load. It addresses the building layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings), but does not cover the water or energy use of appliances or energy production of solar panels.

Ratings are based on a unique climate zone where the home is located and are generated using standard assumptions, including occupancy patterns and thermostat settings. The actual energy consumption of a home may vary significantly from the predicted energy load, as the assumptions used in the rating will not match actual usage patterns. For example, the number of occupants and personal heating or cooling preferences will vary.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparing different dwelling designs and to demonstrate that the design meets the energy efficiency requirements in the National Construction Code. Homes that are energy efficient use less energy, are warmer on cool days, cooler on hot days and cost less to run. The higher the star rating the more thermally efficient the dwelling is.

Accredited assessors

To ensure the NatHERS Certificate is of a high quality, always use an accredited or licenced assessor. NatHERS accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

Australian Capital Territory (ACT) licensed assessors may only produce assessments for regulatory purposes using software for which they have a licence endorsement. Licence endorsements can be confirmed on the ACT licensing register

AAOs have specific quality assurance processes in place, and continuing professional development requirements, to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any ongoing training requirements.

Any questions or concerns about this report should be directed to the assessor in the first instance. If the assessor is unable to address these questions or concerns, the AAO specified on the front of this certificate should be contacted.

Disclaimer

The format of the NatHERS Certificate was developed by the NatHERS Administrator. However the content of each individual certificate is entered and created by the assessor to create a NatHERS Certificate. It is the responsibility of the assessor who prepared this certificate to use NatHERS accredited software correctly and follow the NatHERS Technical Notes to produce a NatHERS Certificate.

The predicted annual energy load in this NatHERS Certificate is an estimate based on an assessment of the building by the assessor. It is not a prediction of actual energy use, but may be used to compare how other buildings 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, indoor air temperature and local climate.

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

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, rangehoods, 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.
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.
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 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.

\* Refer to glossary.

<b>National Construction Code (NCC) Class</b>	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 <a href="http://www.abcb.gov.au">www.abcb.gov.au</a> .
<b>Opening Percentage</b>	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
<b>Provisional value</b>	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 <a href="http://www.nathers.gov.au">www.nathers.gov.au</a>
<b>Reflective wrap</b> (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.
<b>Roof window</b>	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.
<b>Shading device</b>	a device fixed to windows that provides shading e.g. window awnings or screens but excludes eaves.
<b>Shading features</b>	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
<b>Solar heat gain coefficient (SHGC)</b>	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.
<b>Skylight</b> (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.
<b>U-value</b>	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
<b>Unconditioned</b>	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions.
<b>Vertical shading features</b>	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).