

# Nationwide House Energy Rating Scheme

## NatHERS Certificate No. 0006687636

Generated on 19 Oct 2021 using BERS Pro v4.4.0.6 (3.21)

### Property

**Address** 14 Ocean Road , Palm Beach , NSW ,  
2108

**Lot/DP** 1/412086

**NCC Class\*** 1A

**Type** New Dwelling

### Plans

**Main Plan** DA

**Prepared by** Mathieson

### Construction and environment

Assessed floor area (m <sup>2</sup> *)	Exposure Type
Conditioned*	Exposed
Unconditioned*	<b>NatHERS climate zone</b>
Total	56
Garage	

### Accredited assessor

**Name** Robert Romanous

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**Accreditation No.** 101535

**Assessor Accrediting Organisation**  
ABSA

**Declaration of interest** 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.

**5.1**  
The more stars  
the more energy efficient

**NATIONWIDE  
HOUSE**  
ENERGY RATING SCHEME

**64.9 MJ/m<sup>2</sup>**  
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](http://www.nathers.gov.au)

### Thermal performance

Heating	Cooling
<b>40.6</b> MJ/m <sup>2</sup>	<b>24.4</b> MJ/m <sup>2</sup>

### 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 [hstar.com.au/QR/Generate?p=OPIVrthnA](http://hstar.com.au/QR/Generate?p=OPIVrthnA). When using either link, ensure you are visiting [hstar.com.au](http://hstar.com.au)



## 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?

### 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

## 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-001-03 A	ALM-001-03 A Aluminium A SG High Solar Gain Low-E	5.4	0.49	0.47	0.51

### Custom\* windows

Window ID	Window Description	Maximum U-value*	SHGC*	Substitution tolerance ranges	
				SHGC lower limit	SHGC upper limit
AWS-030-17 A	AWS-030-17 A 462 Al Sliding Window SG 6.38CP	4.5	0.52	0.49	0.55
AWS-003-12 A	AWS-003-12 A 502/504 Al Sliding Window DG 638CPClr/8Ar/4	3.6	0.48	0.46	0.50

## Window and glazed door *schedule*

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
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Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Kitchen/Living	AWS-030-17 A	n/a	3000	9770	n/a	65	E	No
Kitchen/Living	AWS-030-17 A	n/a	3000	1585	n/a	00	S	No
Kitchen/Living	AWS-030-17 A	n/a	3000	1100	n/a	00	S	No
Kitchen/Living	AWS-030-17 A	n/a	3000	1565	n/a	00	N	No
G Stairs	ALM-001-03 A	n/a	3000	1000	n/a	90	E	No
1 Stair	AWS-030-17 A	n/a	2500	1100	n/a	00	N	No
1 Stair	AWS-030-17 A	n/a	3200	1000	n/a	00	E	No
1 Corrdior	AWS-030-17 A	n/a	2500	1100	n/a	00	S	No
Rumpas	AWS-003-12 A	n/a	2700	5385	n/a	45	W	Yes
Bedroom 1	AWS-030-17 A	n/a	2700	3170	n/a	00	N	Yes
Bedroom 1	AWS-030-17 A	n/a	2700	3200	n/a	45	E	Yes
Bedroom 2	AWS-030-17 A	n/a	2700	3200	n/a	45	E	Yes
Bedroom 3	AWS-030-17 A	n/a	2700	3200	n/a	45	E	Yes
Bedroom 3	AWS-030-17 A	n/a	2700	3170	n/a	45	S	Yes
Bedroom 4	AWS-030-17 A	n/a	2700	3200	n/a	45	W	Yes
Master Bedroom	AWS-003-12 A	n/a	2700	6500	n/a	65	E	Yes
Master Bedroom	AWS-003-12 A	n/a	2700	6470	n/a	65	W	Yes
Stair	AWS-003-12 A	n/a	2700	970	n/a	00	W	Yes
Stair	AWS-003-12 A	n/a	2700	1500	n/a	00	N	Yes
Stair	AWS-003-12 A	n/a	2700	1500	n/a	00	N	Yes
Stair	AWS-003-12 A	n/a	2700	1500	n/a	00	N	Yes
Stair	AWS-003-12 A	n/a	2700	970	n/a	00	E	Yes
Ens	AWS-003-12 A	n/a	2700	2100	n/a	65	E	Yes
Ens	AWS-003-12 A	n/a	2700	3220	n/a	45	S	Yes
Ens	AWS-003-12 A	n/a	2700	1500	n/a	00	S	Yes
Ens	AWS-003-12 A	n/a	2700	970	n/a	00	W	Yes

## Roof window type and performance

### Default\* roof windows

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

### Custom\* roof windows

Window ID	Window Description	Maximum U-value*	SHGC*	Substitution tolerance ranges	
				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
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No Data Available

## Skylight type and performance

Skylight ID	Skylight description
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No Data Available

## Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m <sup>2</sup> )	Orientation	Outdoor shade	Diffuser	Skylight shaft reflectance
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No Data Available

## External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
Garage	2400	5900	90	E
Garage	2040	820	90	N
B Corridor	2040	820	90	E

## External wall type

Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
EW-1	Single Skin Brick	0.50	Medium	No insulation	No
EW-2	Single Skin Brick	0.00	Light	No insulation	No
EW-3	Single Skin Brick	0.50	Medium	No insulation	No
EW-4	Tilt up concrete, lined	0.50	Medium	Bulk Insulation R1	No
EW-5	Cavity Brick	0.50	Medium	Bulk Insulation R1.1	No
EW-6	Cavity Brick	0.50	Medium	Bulk Insulation R1.1	No
EW-7	Tilt up concrete, lined	0.50	Medium	Bulk Insulation R1	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-1	2400	6445	E	0	NO
Garage	EW-2	2400	6390	W	0	YES
Garage	EW-3	2400	2400	N	0	YES
B Corridor	EW-2	2400	3150	S	0	YES
B Corridor	EW-2	2400	8850	N	0	NO

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
B Corridor	EW-2	2400	1445	E	0	YES
B Lift	EW-4	2400	1950	S	0	NO
B Lift	EW-4	2400	1500	W	0	NO
B Lift	EW-4	2400	1950	N	0	NO
Cellar	EW-2	2400	3145	S	0	NO
Cellar	EW-2	2400	3345	W	0	NO
Ldry	EW-2	2400	1690	S	0	NO
Bin/Plant	EW-1	2400	3345	E	0	NO
Bin/Plant	EW-2	2400	3045	S	0	NO
Kitchen/Living	EW-5	3000	10000	E	2100	NO
Kitchen/Living	EW-5	3000	1900	S	500	YES
Kitchen/Living	EW-5	3000	800	E	3400	YES
Kitchen/Living	EW-5	3000	6700	S	0	NO
Kitchen/Living	EW-6	3000	800	W	0	YES
Kitchen/Living	EW-6	3000	900	S	0	YES
Kitchen/Living	EW-6	3000	10000	W	0	NO
Kitchen/Living	EW-6	3000	900	N	0	YES
Kitchen/Living	EW-5	3000	1700	N	0	YES
G Lift	EW-7	3000	600	N	0	YES
G Lift	EW-7	3000	1445	E	0	YES
G Stairs	EW-6	3000	2445	W	0	YES
G Stairs	EW-6	3000	6300	N	0	NO
G Stairs	EW-5	3000	945	E	100	YES
1 Lift	EW-7	2700	1495	E	0	YES
1 Lift	EW-7	2700	600	N	0	YES
1 Stair	EW-5	2700	2495	W	0	YES
1 Stair	EW-5	2700	6300	N	0	NO
1 Stair	EW-5	3200	995	E	0	YES
1 Corrdior	EW-5	2700	2090	S	0	NO
1 Corrdior	EW-5	2700	1195	W	0	NO
1 Corrdior	EW-5	2700	2100	N	0	YES
Rumpas	EW-5	2700	5490	W	500	NO
Bedroom 1	EW-5	2700	3300	N	400	YES
Bedroom 1	EW-5	2700	3395	E	600	NO
Bedroom 2	EW-5	2700	3290	E	600	NO
Bedroom 3	EW-5	2700	3295	E	600	NO
Bedroom 3	EW-5	2700	3495	S	500	YES
Ens	EW-5	2700	800	E	4100	YES

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Ens	EW-5	2700	1595	S	0	NO
Bedroom 4	EW-5	2700	1495	S	0	NO
Bedroom 4	EW-5	2700	800	W	0	YES
Bedroom 4	EW-5	2700	1700	S	400	YES
Bedroom 4	EW-5	2700	3295	W	500	NO
Ens	EW-5	2700	1890	S	0	NO
Master Bedroom	EW-5	2700	6490	E	400	NO
Master Bedroom	EW-5	2700	6490	W	400	NO
Stair	EW-5	2700	1295	W	400	NO
Stair	EW-5	2700	4900	N	300	NO
Stair	EW-5	2700	1295	E	400	NO
Ens	EW-5	2700	2195	E	400	NO
Ens	EW-5	2700	4900	S	400	NO
Ens	EW-5	2700	2195	W	400	NO

## Internal wall type

Wall ID	Wall type	Area (m <sup>2</sup> )	Bulk insulation
IW-1 - Single Skin Brick		79.00	No insulation
IW-2 - Tilt Concrete		4.00	No insulation
IW-3 - Cavity wall, direct fix plasterboard, single gap		204.00	No insulation

## Floor type

Location	Construction	Area (m <sup>2</sup> )	Sub-floor ventilation	Added insulation (R-value)	Covering
Garage	Concrete Slab on Ground 200mm	51.90	None	No Insulation	Bare
B Corridor	Concrete Slab on Ground 200mm	13.00	None	No Insulation	Ceramic Tiles 8mm
B Lift	Concrete Slab on Ground 200mm	2.90	None	No Insulation	Ceramic Tiles 8mm
Cellar	Concrete Slab on Ground 200mm	10.50	None	No Insulation	Ceramic Tiles 8mm
Ldry	Concrete Slab on Ground 200mm	5.70	None	No Insulation	Ceramic Tiles 8mm
Bin/Plant	Concrete Slab on Ground 200mm	10.20	None	No Insulation	Bare
Kitchen/Living	Concrete Slab on Ground 200mm	100.00	None	No Insulation	40/60 Carpet 10mm/Ceramic
G Lift/B Lift	Concrete Above Plasterboard 200mm	2.70		No Insulation	Ceramic Tiles 8mm
G Stairs	Concrete Slab on Ground 200mm	13.20	None	No Insulation	Ceramic Tiles 8mm
1 Lift/G Lift	Concrete Above Plasterboard 200mm	2.80		No Insulation	Ceramic Tiles 8mm
1 Stair/G Stairs	Concrete Above Plasterboard 200mm	13.30		No Insulation	Ceramic Tiles 8mm

Location	Construction	Area (m <sup>2</sup> )	Sub-floor ventilation	Added insulation (R-value)	Covering
1 Corrdior/Kitchen/Living	Concrete Above Plasterboard 200mm	20.00		No Insulation	Carpet 10mm
1 Corrdior	Concrete Slab on Ground 200mm	1.40	None	No Insulation	Carpet 10mm
Rumpas/Kitchen/Living	Concrete Above Plasterboard 200mm	24.20		No Insulation	Carpet 10mm
Rumpas	Concrete Slab on Ground 200mm	6.40	None	No Insulation	Carpet 10mm
Bedroom 1/Kitchen/Living	Concrete Above Plasterboard 200mm	9.20		No Insulation	Carpet 10mm
Bedroom 1	Suspended Concrete Slab 200mm	5.30	Totally Open	Bulk Insulation in Contact with Floor R1.5	Carpet 10mm
Bedroom 2/Kitchen/Living	Concrete Above Plasterboard 200mm	8.60		No Insulation	Carpet 10mm
Bedroom 2	Suspended Concrete Slab 200mm	5.10	Totally Open	Bulk Insulation in Contact with Floor R1.5	Carpet 10mm
Bedroom 3/Kitchen/Living	Concrete Above Plasterboard 200mm	9.00		No Insulation	Carpet 10mm
Bedroom 3	Suspended Concrete Slab 200mm	5.10	Totally Open	Bulk Insulation in Contact with Floor R1.5	Carpet 10mm
Bathroom/Kitchen/Living	Concrete Above Plasterboard 200mm	5.80		No Insulation	Ceramic Tiles 8mm
Ens/Kitchen/Living	Concrete Above Plasterboard 200mm	3.60		No Insulation	Ceramic Tiles 8mm
Bedroom 4/Kitchen/Living	Concrete Above Plasterboard 200mm	11.30		No Insulation	Carpet 10mm
Bedroom 4	Concrete Slab on Ground 200mm	4.10	None	No Insulation	Carpet 10mm
Ens/Kitchen/Living	Concrete Above Plasterboard 200mm	4.30		No Insulation	Ceramic Tiles 8mm
Master Bedroom/Rumpas	Concrete Above Plasterboard 200mm	26.10		No Insulation	Carpet 10mm
Master Bedroom/Bedroom 4	Concrete Above Plasterboard 200mm	5.30		No Insulation	Carpet 10mm
Stair/1 Corrdior	Concrete Above Plasterboard 200mm	5.70		No Insulation	Ceramic Tiles 8mm
Ens/Bedroom 4	Concrete Above Plasterboard 200mm	7.90		No Insulation	Ceramic Tiles 8mm
Ens/Ens	Concrete Above Plasterboard 200mm	2.70		No Insulation	Ceramic Tiles 8mm

## Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Garage	Plasterboard	No insulation	No
B Corridor	Plasterboard	No insulation	No
B Lift	Concrete Above Plasterboard	No Insulation	No
Cellar	Plasterboard	No insulation	No
Ldry	Plasterboard	No insulation	No
Bin/Plant	Plasterboard	No insulation	No
Kitchen/Living	Concrete Above Plasterboard	No Insulation	No
G Lift	Concrete Above Plasterboard	No Insulation	No
G Stairs	Concrete Above Plasterboard	No Insulation	No

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
1 Lift	Plasterboard	Bulk Insulation R2.3	No
1 Stair	Plasterboard	Bulk Insulation R2.3	No
1 Corrdior	Plasterboard	Bulk Insulation R2.3	No
1 Corrdior	Concrete Above Plasterboard	No Insulation	No
Rumpas	Plasterboard	Bulk Insulation R2.3	No
Rumpas	Concrete Above Plasterboard	No Insulation	No
Bedroom 1	Plasterboard	Bulk Insulation R2.3	No
Bedroom 2	Plasterboard	Bulk Insulation R2.3	No
Bedroom 3	Plasterboard	Bulk Insulation R2.3	No
Bathroom	Plasterboard	Bulk Insulation R2.3	No
Ens	Plasterboard	Bulk Insulation R2.3	No
Bedroom 4	Plasterboard	Bulk Insulation R2.3	No
Bedroom 4	Concrete Above Plasterboard	No Insulation	No
Ens	Plasterboard	Bulk Insulation R2.3	No
Ens	Concrete Above Plasterboard	No Insulation	No
Master Bedroom	Plasterboard	Bulk Insulation R3	No
Stair	Plasterboard	Bulk Insulation R3	No
Ens	Plasterboard	Bulk Insulation R3	No

## Ceiling penetrations\*

Location	Quantity	Type	Diameter (mm <sup>2</sup> )	Sealed/unsealed
Ldry	1	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Bathroom	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed
Ens	1	Exhaust Fans	300	Sealed
Ens	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
Concrete	No Insulation, Only an Air Gap	0.50	Medium
Concrete	No Insulation, Only an Air Gap	0.50	Medium





Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.8	0.50	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

<b>Annual energy load</b>	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
<b>Assessed floor area</b>	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.
<b>Ceiling penetrations</b>	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.
<b>Conditioned</b>	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.
<b>Custom windows</b>	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
<b>Default windows</b>	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
<b>Entrance door</b>	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.
<b>Exposure category – exposed</b>	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
<b>Exposure category – open</b>	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).
<b>Exposure category – suburban</b>	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
<b>Exposure category – protected</b>	terrain with numerous, closely spaced obstructions over 10m e.g. city and industrial areas.
<b>Horizontal shading feature</b>	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
<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 (also known as foil)</b>	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 (also known as roof lights)</b>	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).