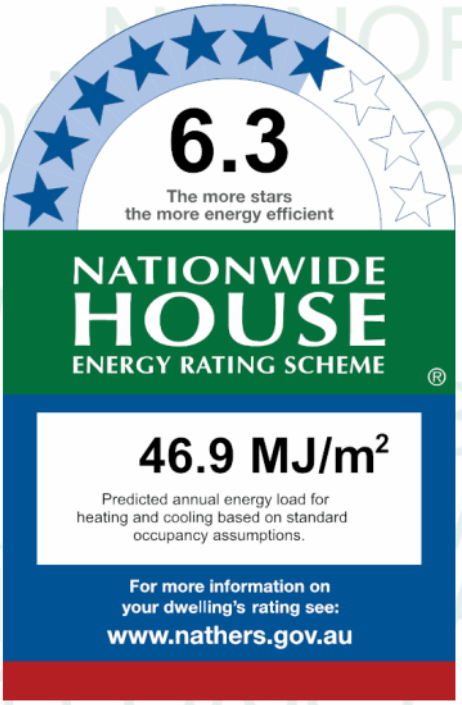
Nationwide House Energy Rating Scheme
NatHERS Certificate No. 0006679716

Generated on 18 Oct 2021 using BERS Pro v4.4.0.6 (3.21)



Property

Address	11 Oak Street , North Narrabeen , NSW , 2101
Lot/DP	27/6544
NCC Class*	1A
Type	New Dwelling

Plans

Main Plan	11 Oak Street, North Narrabeen NSW 2101
Prepared by	DANIEL SIRIC ARCHITECTS

Construction and environment

Assessed floor area (m^2)*		**Exposure Type**
Conditioned*	333.0	Suburban
Unconditioned*	51.0	**NatHERS climate zone**
Total	384.0	56
Garage	30.0	

Thermal performance

Heating	Cooling
24.1 MJ/m^2	22.9 MJ/m^2

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.

Accredited assessor

Name	Martin Pinson
Business name	INTEGRECO
Email	consulting@integreco.com
Phone	0422144603
Accreditation No.	DMN/19/1921

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration completed: no conflicts

Verification

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate?p=ESBhevhGF.
When using either link, ensure you are visiting hstar.com.au

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.

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

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-002-01 A	ALM-002-01 A Aluminium B SG Clear	6.7	0.70	0.66	0.73
ALM-001-01 A	ALM-001-01 A Aluminium A SG Clear	6.7	0.57	0.54	0.60

Custom* windows

Window ID	Window Description	Maximum U-value*	SHGC*	Substitution tolerance ranges	
				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 1	ALM-002-01 A	n/a	600	2400	n/a	45	S	No

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Kitchen/Living	ALM-002-01 A	n/a	1500	2400	n/a	45	N	No
Kitchen/Living	ALM-002-01 A	n/a	2400	3600	n/a	65	E	No
Kitchen/Living	ALM-002-01 A	n/a	2400	3600	n/a	65	E	No
Bedroom 1	ALM-002-01 A	n/a	2400	2400	n/a	45	N	No
Bedroom 1	ALM-002-01 A	n/a	2100	1200	n/a	45	N	No
Bedroom 2	ALM-001-01 A	n/a	2100	2400	n/a	20	W	No
Night Time 1	ALM-002-01 A	n/a	1500	1200	n/a	45	N	No
Unconditioned 1	ALM-002-01 A	n/a	1500	1600	n/a	45	S	No
Living 1	ALM-002-01 A	n/a	1200	2200	n/a	45	S	No
Living 1	ALM-002-01 A	n/a	1200	2400	n/a	45	W	No
Living 1	ALM-002-01 A	n/a	1200	2400	n/a	45	S	No
Living 1	ALM-002-01 A	n/a	1200	2400	n/a	45	W	No
Living 1	ALM-002-01 A	n/a	1200	2400	n/a	45	W	No
Living 1	ALM-002-01 A	n/a	600	2400	n/a	45	N	No
Living 1	ALM-002-01 A	n/a	600	2400	n/a	45	N	No
Unconditioned 3	ALM-002-01 A	n/a	1200	900	n/a	45	N	No
Bedroom 3	ALM-002-01 A	n/a	1200	2400	n/a	45	E	No
Bedroom 4	ALM-002-01 A	n/a	1200	2400	n/a	45	E	No
Bedroom 5	ALM-002-01 A	n/a	1200	2400	n/a	45	E	No

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
No Data Available								

Skylight *type and performance*

Skylight ID	Skylight description

* Refer to glossary.

Skylight ID	Skylight description
No Data Available	

Skylight *schedule*

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

External door *schedule*

Location	Height (mm)	Width (mm)	Opening %	Orientation
Garage 1	2400	3200	90	W
Kitchen/Living	2400	1700	90	W
Unconditioned 2	2100	1000	90	S

External wall *type*

Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
EW-1	Brick Veneer	0.50	Medium	Bulk Insulation R2.5	No
EW-2	Fibro Cavity Panel on Battens	0.30	Light	Bulk Insulation R2.5	No
EW-3	Brick Veneer	0.30	Light	Bulk Insulation R2.5	No
EW-4	Fibro Cavity Panel Direct Fix	0.30	Light	Bulk Insulation R2.5	No
EW-5	Brick Veneer	0.50	Medium	Bulk Insulation R2.5	No
EW-6	Fibro Cavity Panel on BattensZ:12W2:5	0.50	Medium	Bulk Insulation R2.5	No
EW-7	Fibro Cavity Panel on BattensZ:12W2:6	0.50	Medium	Bulk Insulation R2.5	No
EW-8	Fibro Cavity Panel Direct FixZ:12W2:7	0.30	Light	Bulk Insulation R2.5	No
EW-9	Fibro Cavity Panel Direct FixZ:12W2:8	0.30	Light	Bulk Insulation R2.5	No
EW-10	Fibro Cavity Panel on BattensZ:12W2:13	0.50	Medium	Bulk Insulation R2.5	No
EW-11	Fibro Cavity Panel on BattensZ:12W2:14	0.50	Medium	Bulk Insulation R2.5	No
EW-12	Fibro Cavity Panel Direct FixZ:12W2:15	0.30	Light	Bulk Insulation R2.5	No
EW-13	Fibro Cavity Panel Direct FixZ:12W2:16	0.30	Light	Bulk Insulation R2.5	No
EW-14	Fibro Cavity Panel Direct FixZ:12W2:17	0.30	Light	Bulk Insulation R2.5	No
EW-15	Fibro Cavity Panel Direct FixZ:13W2:2	0.30	Light	Bulk Insulation R2.5	No
EW-16	Fibro Cavity Panel Direct FixZ:14W2:1	0.30	Light	Bulk Insulation R2.5	No
EW-17	Fibro Cavity Panel on BattensZ:15W2:2	0.50	Medium	Bulk Insulation R2.5	No
EW-18	Fibro Cavity Panel Direct FixZ:15W2:3	0.30	Light	Bulk Insulation R2.5	No
EW-19	Fibro Cavity Panel Direct FixZ:15W2:4	0.30	Light	Bulk Insulation R2.5	No
EW-20	Fibro Cavity Panel Direct FixZ:16W2:0	0.30	Light	Bulk Insulation R2.5	No
EW-21	Fibro Cavity Panel Direct FixZ:16W2:1	0.30	Light	Bulk Insulation R2.5	No
EW-22	Fibro Cavity Panel Direct FixZ:17W2:2	0.30	Light	Bulk Insulation R2.5	No

* Refer to glossary.

External wall *schedule*

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Garage 1	EW-1	2700	400	E	0	YES
Garage 1	EW-1	2700	7600	S	0	NO
Garage 1	EW-1	2700	3995	W	200	YES
Kitchen/Living	EW-1	2700	1000	S	600	YES
Kitchen/Living	EW-1	2700	1995	W	1800	NO
Kitchen/Living	EW-1	2700	5995	N	0	NO
Kitchen/Living	EW-1	2700	10600	E	4600	NO
Kitchen/Living	EW-1	2700	5995	S	0	NO
Bedroom 1	EW-1	2700	8390	N	0	NO
Bedroom 2	EW-1	2700	4995	W	1800	NO
Bedroom 2	EW-1	2700	4595	N	0	NO
Night Time 1	EW-1	2700	3190	N	0	NO
Unconditioned 1	EW-1	2700	2790	S	0	YES
Unconditioned 2	EW-1	2700	1590	S	0	NO
Day Time 2	EW-1	2700	3190	S	0	NO
Living 1	EW-6	1500	3600	E	4600	NO
Living 1	EW-7	1500	3400	E	4600	NO
Living 1	EW-3	900	6795	S	0	NO
Living 1	EW-8	1500	6795	S	600	NO
Living 1	EW-3	900	3400	W	0	YES
Living 1	EW-9	1500	3400	W	600	YES
Living 1	EW-5	2400	1275	S	4000	YES
Living 1	EW-10	1500	2480	S	4200	NO
Living 1	EW-11	1500	275	E	10200	NO
Living 1	EW-3	900	7995	S	0	NO
Living 1	EW-12	1500	7995	S	600	NO
Living 1	EW-3	900	7200	W	0	NO
Living 1	EW-13	1500	7200	W	600	NO
Living 1	EW-3	900	7995	N	0	NO
Living 1	EW-14	1500	7995	N	600	NO
Unconditioned 3	EW-3	900	2790	N	0	NO
Unconditioned 3	EW-15	1500	2790	N	600	NO
Bedroom 3	EW-3	900	3590	E	0	NO
Bedroom 3	EW-16	1500	3590	E	600	NO
Bedroom 4	EW-17	1500	2200	W	14200	NO
Bedroom 4	EW-3	900	3995	N	0	NO
Bedroom 4	EW-18	1500	3995	N	600	NO

* Refer to glossary.

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Bedroom 4	EW-3	900	3595	E	0	NO
Bedroom 4	EW-19	1500	3595	E	600	NO
Bedroom 5	EW-3	900	3395	E	0	NO
Bedroom 5	EW-20	1500	3395	E	600	NO
Bedroom 5	EW-3	900	3995	S	0	NO
Bedroom 5	EW-21	1500	3995	S	600	NO
Day Time 5	EW-3	900	2790	N	0	NO
Day Time 5	EW-22	1500	2790	N	600	NO

Internal wall *type*

Wall ID	Wall type	Area (m^2)	Bulk insulation
IW-1 - Cavity wall, direct fix plasterboard, single gap		41.00	Bulk Insulation, No Air Gap R2.5
IW-2 - Cavity wall, direct fix plasterboard, single gap		189.00	No insulation
IW-3 - Tilt Concrete		47.00	No insulation

Floor *type*

Location	Construction	Area (m^2)	Sub-floor ventilation	Added insulation (R-value)	Covering
Garage 1	Concrete Slab on Ground 200mm	29.90	None	No Insulation	Bare
Kitchen/Living	Concrete Slab on Ground 200mm	94.10	None	No Insulation	Ceramic Tiles 8mm
Bedroom 1	Concrete Slab on Ground 200mm	41.20	None	No Insulation	Carpet 10mm
Bedroom 2	Concrete Slab on Ground 200mm	22.60	None	No Insulation	Carpet 10mm
Night Time 1	Concrete Slab on Ground 200mm	15.40	None	No Insulation	Ceramic Tiles 8mm
Unconditioned 1	Concrete Slab on Ground 200mm	9.60	None	No Insulation	Ceramic Tiles 8mm
Day Time 1	Concrete Slab on Ground 200mm	2.30	None	No Insulation	Ceramic Tiles 8mm
Unconditioned 2	Concrete Slab on Ground 200mm	2.00	None	No Insulation	Bare
Day Time 2	Concrete Slab on Ground 200mm	6.50	None	No Insulation	Ceramic Tiles 8mm
Day Time 3	Concrete Slab on Ground 200mm	4.60	None	No Insulation	Ceramic Tiles 8mm
Day Time 4/Day Time 3	Timber Above Plasterboard 150mm	4.60		No Insulation	Carpet 10mm
Living 1/Garage 1	Timber Above Plasterboard 150mm	0.80		Bulk Insulation R2.5	Carpet 10mm
Living 1/Kitchen/Living	Timber Above Plasterboard 150mm	39.40		No Insulation	Carpet 10mm
Living 1/Bedroom 1	Timber Above Plasterboard 150mm	39.90		No Insulation	Carpet 10mm
Living 1/Night Time 1	Timber Above Plasterboard 150mm	5.50		No Insulation	Carpet 10mm
Living 1/Unconditioned 1	Timber Above Plasterboard 150mm	0.50		No Insulation	Carpet 10mm
Living 1/Day Time 1	Timber Above Plasterboard 150mm	2.60		No Insulation	Carpet 10mm
Living 1/Unconditioned 2	Timber Above Plasterboard 150mm	2.20		Bulk Insulation R2.5	Carpet 10mm
Living 1/Day Time 2	Timber Above Plasterboard 150mm	7.00		No Insulation	Carpet 10mm
Unconditioned 3/Bedroom 1	Timber Above Plasterboard 150mm	1.40		No Insulation	Ceramic Tiles 8mm

* Refer to glossary.

Location	Construction	Area (m)	Sub-floor ventilation	Added insulation (R-value)	Covering
Unconditioned 3/Night Time 1	Timber Above Plasterboard 150mm	8.30		No Insulation	Ceramic Tiles 8mm
Bedroom 3/Kitchen/Living	Timber Above Plasterboard 150mm	13.90		No Insulation	Carpet 10mm
Bedroom 4/Kitchen/Living	Timber Above Plasterboard 150mm	14.10		No Insulation	Carpet 10mm
Bedroom 5/Kitchen/Living	Timber Above Plasterboard 150mm	13.30		No Insulation	Carpet 10mm
Day Time 5/Kitchen/Living	Timber Above Plasterboard 150mm	4.20		No Insulation	Carpet 10mm
Day Time 5/Night Time 1	Timber Above Plasterboard 150mm	1.70		No Insulation	Carpet 10mm

Ceiling *type*

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Garage 1	Plasterboard	Bulk Insulation R4	No
Garage 1	Timber Above Plasterboard	Bulk Insulation R2.5	No
Kitchen/Living	Plasterboard	Bulk Insulation R4	No
Kitchen/Living	Timber Above Plasterboard	No Insulation	No
Bedroom 1	Timber Above Plasterboard	No Insulation	No
Bedroom 2	Plasterboard	Bulk Insulation R4	No
Night Time 1	Timber Above Plasterboard	No Insulation	No
Unconditioned 1	Plasterboard	Bulk Insulation R4	No
Unconditioned 1	Timber Above Plasterboard	No Insulation	No
Day Time 1	Timber Above Plasterboard	No Insulation	No
Unconditioned 2	Timber Above Plasterboard	Bulk Insulation R2.5	No
Day Time 2	Timber Above Plasterboard	No Insulation	No
Day Time 3	Timber Above Plasterboard	No Insulation	No
Day Time 4	Plasterboard	Bulk Insulation R4	No
Living 1	Plasterboard	Bulk Insulation R4	No
Unconditioned 3	Plasterboard	Bulk Insulation R4	No
Bedroom 3	Plasterboard	Bulk Insulation R4	No
Bedroom 4	Plasterboard	Bulk Insulation R4	No
Bedroom 5	Plasterboard	Bulk Insulation R4	No
Day Time 5	Plasterboard	Bulk Insulation R4	No

Ceiling *penetrations**

Location	Quantity	Type	Diameter (mm^2)	Sealed/unsealed
Garage 1	12	Downlights - LED	150	Sealed
Kitchen/Living	38	Downlights - LED	150	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Bedroom 1	16	Downlights - LED	150	Sealed
Bedroom 2	9	Downlights - LED	150	Sealed

* Refer to glossary.

Location	Quantity	Type	Diameter (mm)	Sealed/unsealed
Night Time 1	6	Downlights - LED	150	Sealed
Night Time 1	1	Exhaust Fans	300	Sealed
Unconditioned 1	4	Downlights - LED	150	Sealed
Unconditioned 1	1	Exhaust Fans	300	Sealed
Day Time 1	1	Downlights - LED	150	Sealed
Day Time 1	1	Exhaust Fans	300	Sealed
Living 1	39	Downlights - LED	150	Sealed
Unconditioned 3	4	Downlights - LED	150	Sealed
Unconditioned 3	1	Exhaust Fans	300	Sealed
Bedroom 3	5	Downlights - LED	150	Sealed
Bedroom 4	5	Downlights - LED	150	Sealed
Bedroom 5	5	Downlights - LED	150	Sealed
Day Time 5	2	Downlights - LED	150	Sealed

Ceiling *fans*

Location	Quantity	Diameter (mm)
No Data Available		

Roof *type*

Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Corrugated Iron	No Insulation, Only an Air Gap	0.43	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.
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.
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
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 device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes eaves.
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.
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).

* Refer to glossary.