Nationwide House Energy Rating Scheme NatHERS Certificate No. 0007161912

Generated on 27 Mar 2022 using BERS Pro v4.4.1.5 (3.21)

Property

Address

7 CRAGG STREET , CONDELL PARK , NSW , 2200

Lot/DP

8/13832

NCC Class

New Dwelling

1A

Plans

Туре

Main Plan	
Prepared by	

Aram

Aram

Construction and environment

Assessed floor area (m²)*

Conditioned*	366.0
Unconditioned*	93.0
Total	459.0
Garage	65.0

Accredited assessor

Name	
Business name	
Email	
Phone	

Accreditation No.

Mahbub Hassan AEEC info@energyefficiencycertificate.com.au 02 8729 2288 HERA10170

Exposure Type

NatHERS climate zone

Suburban

56

Assessor Accrediting Organisation

HERA

Declaration of interest

Declaration completed: no conflicts



The more stars

64.1 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

Heating	
39.7	
MJ/m ²	

Cooling 24.4 MJ/m²

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=BVUcVSOuw. 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? 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

I have modeled the shading in accordance with NatHERS principles

Window and glazed door type and performance

Default* windows

MerclauriD	Window	Maximum	SHGC*	Substitution tolerance ranges		
window ID	Mindow ID Description U-value*		SHGC	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-004-01 A	ALM-004-01 A Aluminium B DG Air Fill Clear-Clear	4.8	0.59	0.56	0.62	

Custom^{*} windows

Window ID	Window	Maximum	Window Maximum	Maximum	SHGC*	Substitution to	lerance ranges
	Description U-value*	3000	SHGC lower limit	SHGC upper limit			
No Data Availal	ble						

Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Living	ALM-002-01 A	n/a	900	4500	n/a	10	S	No

0007161912 NatHERS Certificate

5.1 Star Rating as of 27 Mar 2022



Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Living	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Living	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Living	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Living	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Living	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Living	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Living	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Living	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Living	ALM-002-01 A	n/a	2700	5000	n/a	60	E	No
Bedroom G	ALM-002-01 A	n/a	900	3500	n/a	10	S	No
Ens-G	ALM-002-01 A	n/a	900	900	n/a	90	S	No
Kitchen/Family	ALM-004-01 A	n/a	2700	7390	n/a	90	W	No
Kitchen/Family	ALM-002-01 A	n/a	3000	4500	n/a	60	Ν	No
Kitchen/Family	ALM-002-01 A	n/a	2750	1200	n/a	90	S	No
Kitchen/Family	ALM-002-01 A	n/a	600	4060	n/a	50	S	No
Ldry	ALM-002-01 A	n/a	2800	1460	n/a	10	Ν	No
Ldry	ALM-002-01 A	n/a	600	2200	n/a	50	Ν	No
WC-G	ALM-002-01 A	n/a	3140	900	n/a	50	Ν	No
Entry	ALM-002-01 A	n/a	3630	300	n/a	00	Ν	No
Entry	ALM-002-01 A	n/a	3630	300	n/a	00	Ν	No
Entry	ALM-002-01 A	n/a	3630	300	n/a	00	Ν	No
Bedroom M	ALM-002-01 A	n/a	900	4500	n/a	50	S	No
Bedroom M	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Bedroom M	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Bedroom M	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Bedroom M	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Bedroom M	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Bedroom M	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Bedroom M	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Bedroom M	ALM-002-01 A	n/a	2700	300	n/a	50	Ν	No
Bedroom M	ALM-002-01 A	n/a	2700	5000	n/a	45	E	No
Bedroom M	ALM-002-01 A	n/a	600	3665	n/a	00	E	No
Ens-M	ALM-002-01 A	n/a	2050	2000	n/a	50	S	No
Bedroom 3	ALM-002-01 A	n/a	900	4560	n/a	50	S	No
Bedroom 2	ALM-002-01 A	n/a	900	4560	n/a	10	Ν	No
WC-FF	ALM-002-01 A	n/a	900	1199	n/a	10	E	No
Bath	ALM-002-01 A	n/a	1200	1800	n/a	10	S	No
Bath	ALM-002-01 A	n/a	900	1200	n/a	90	E	No
Rumpus	ALM-002-01 A	n/a	900	4175	n/a	50	Ν	No

0007161912 NatHERS Certificate

5.1 Star Rating as of 27 Mar 2022



Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Rumpus	ALM-002-01 A	n/a	2420	300	n/a	00	Ν	No
Rumpus	ALM-002-01 A	n/a	2420	300	n/a	00	Ν	No
Rumpus	ALM-002-01 A	n/a	2420	300	n/a	00	Ν	No
Rumpus	ALM-002-01 A	n/a	3150	1290	n/a	10	E	No
Rumpus	ALM-002-01 A	n/a	900	1800	n/a	50	S	No
Ptry	ALM-002-01 A	n/a	900	2700	n/a	10	E	No
Ptry	ALM-002-01 A	n/a	600	2500	n/a	00	S	No

Roof window type and performance

Default* roof windows

Window ID	Window Maximum	SHGC*	Substitution tolerance ranges			
Description U-	U-value*	3660	SHGC lower limit	SHGC upper limit		
No Data Availat	ble					
Custom* roof w	vindows					
Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
window ID	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	
No Data Availat	ble					

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
No Data Available	

Skylight schedule

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

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation	
Garage	2400	5000	90	E	
Entry	2950	1290	90	E	

* Refer to glossary. Generated on 27 Mar 2022 using BERS Pro v4.4.1.5 (3.21) for 7 CRAGG STREET , CONDELL PARK , NSW , 2200



External wall type

Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
EW-1	Concrete block, lined	0.50	Medium	No insulation	No
EW-2	Concrete block, lined	0.50	Medium	Bulk Insulation R2	No
EW-3	Concrete block, lined	0.50	Medium	Bulk Insulation R2	No
EW-4	Cavity Brick	0.50	Medium	No insulation	No
EW-5	Cavity Brick	0.50	Medium	No insulation	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	2500	9800	S	0	NO
Garage	EW-1	2500	1200	W	0	YES
Garage	EW-1	2500	1045	S	0	YES
Garage	EW-1	2500	11545	Ν	0	YES
Garage	EW-1	2500	6000	E	0	NO
Storage	EW-2	2500	1645	S	0	NO
Storage	EW-2	2500	1100	W	0	YES
Storage	EW-2	2500	8300	S	0	YES
Storage	EW-2	2500	5400	W	0	NO
Storage	EW-3	2500	5645	Ν	0	NO
Pdr	EW-2	2500	1700	E	0	YES
Pdr	EW-2	2500	3545	Ν	0	NO
Living	EW-4	2750	6000	S	0	NO
Living	EW-4	2750	1300	W	12300	YES
Living	EW-4	3650	12145	Ν	0	NO
Living	EW-4	2750	6100	E	1500	NO
Bedroom G	EW-4	2750	4290	S	0	YES
Ens-G	EW-4	2750	1690	S	0	NO
Kitchen/Family	EW-4	2750	8100	W	9000	NO
Kitchen/Family	EW-4	3000	5545	Ν	500	NO
Kitchen/Family	EW-4	2750	1545	S	0	NO
Kitchen/Family	EW-4	2750	1000	W	4500	YES
Kitchen/Family	EW-4	2750	4556	S	0	YES
Kitchen/Family	EW-4	2750	6445	S	0	NO
Ldry	EW-4	3650	1745	Ν	700	YES
Ldry	EW-4	2750	700	W	17700	YES
Ldry	EW-4	2750	2945	Ν	0	NO
WC-G	EW-4	3650	1245	Ν	0	NO

0007161912 NatHERS Certificate

5.1 Star Rating as of 27 Mar 2022



Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
WC-G	EW-4	2750	700	E	12200	YES
Entry	EW-4	3650	2745	Ν	0	NO
Entry	EW-4	2950	1700	E	4600	YES
Entry	EW-4	2750	545	Ν	2200	YES
Bedroom M	EW-4	2750	6000	S	500	NO
Bedroom M	EW-4	2750	1300	W	500	YES
Bedroom M	EW-4	2750	12045	Ν	500	NO
Bedroom M	EW-4	3650	6100	E	1500	NO
WIR-M	EW-4	2750	2190	S	500	YES
Ens-M	EW-4	2750	3690	S	500	NO
Bedroom 3	EW-4	2750	3945	W	500	NO
Bedroom 3	EW-4	2750	5445	S	500	NO
Bedroom 2	EW-4	2750	5445	Ν	500	NO
Bedroom 2	EW-4	2750	4045	W	500	NO
WC-FF	EW-4	2750	1245	S	500	NO
WC-FF	EW-4	2750	1200	E	500	YES
Bath	EW-4	2750	4345	S	0	YES
Bath	EW-4	2750	1345	E	500	YES
Rumpus	EW-4	2750	5145	Ν	500	NO
Rumpus	EW-4	2750	1500	E	4800	YES
Rumpus	EW-4	2750	4800	Ν	0	YES
Rumpus	EW-4	2750	1500	W	4800	YES
Rumpus	EW-4	2750	2800	Ν	0	NO
Rumpus	EW-4	3150	1700	E	500	YES
Rumpus	EW-4	2750	645	Ν	1700	YES
Rumpus	EW-4	2750	1645	S	500	NO
Rumpus	EW-4	2750	1000	W	5600	YES
Rumpus	EW-4	2750	6100	S	500	YES
Ptry	EW-5	2750	2645	E	12300	YES
Ptry	EW-5	2750	2445	S	0	NO

Internal wall type

Wall ID	Wall type	Are a (m ²)	Bulk insulation
IW-1 - Single Skin Brick		14.00	Bulk Insulation, Air Gap R2
IW-2 - Single Skin Brick		241.00	No insulation



Floor type

Location	Construction	Area Sub-floor (m ²) ventilation	Added insulation (R-value)	Covering
Garage	Concrete Slab on Ground 100mm	64.80 None	No Insulation	Bare
Storage	Concrete Slab on Ground 100mm	45.10 None	No Insulation	Ceramic Tiles 8mm
Pdr	Concrete Slab on Ground 100mm	7.60 None	No Insulation	Ceramic Tiles 8mm
Living /Garage	Concrete Above Plasterboard 100mm	37.60	Bulk Insulation R2.5	Carpet 10mm
Living	Concrete Slab on Ground 100mm	7.70 None	No Insulation	Ceramic Tiles 8mm
Bedroom G/Garage	Concrete Above Plasterboard 100mm	13.90	Bulk Insulation R2.5	Ceramic Tiles 8mm
Ens-G/Garage	Concrete Above Plasterboard 100mm	5.20	Bulk Insulation R2.5	Ceramic Tiles 8mm
Kitchen/Family/Storage	Concrete Above Plasterboard 100mm	28.00	No Insulation	Carpet 10mm
Kitchen/Family	Concrete Slab on Ground 100mm	45.10 None	No Insulation	Ceramic Tiles 8mm
Ldry/Storage	Concrete Above Plasterboard 100mm	9.00	No Insulation	Ceramic Tiles 8mm
Ldry/Pdr	Concrete Above Plasterboard 100mm	1.70	No Insulation	Ceramic Tiles 8mm
WC-G/Storage	Concrete Above Plasterboard 100mm	3.10	No Insulation	Ceramic Tiles 8mm
Entry/Garage	Concrete Above Plasterboard 100mm	0.90	Bulk Insulation R2.5	Ceramic Tiles 8mm
Entry/Storage	Concrete Above Plasterboard 100mm	2.70	No Insulation	Ceramic Tiles 8mm
Entry/Pdr	Concrete Above Plasterboard 100mm	5.90	No Insulation	Ceramic Tiles 8mm
Bedroom M/Living	Concrete Above Plasterboard 150mm	44.50	No Insulation	Carpet 10mm
WIR-M/Bedroom G	Concrete Above Plasterboard 150mm	7.10	No Insulation	Carpet 10mm
Ens-WBedroom G	Concrete Above Plasterboard 150mm	6.60	No Insulation	Ceramic Tiles 8mm
Ens-WEns-G	Concrete Above Plasterboard 150mm	5.40	No Insulation	Ceramic Tiles 8mm
Bedroom 3/Kitchen/Family	Concrete Above Plasterboard 150mm	6.60	No Insulation	Carpet 10mm
Bedroom 3	Suspended Concrete Slab 150mm	14.80 Totally Open	Bulk Insulation in Contact with Floor R2	Carpet 10mm
Bedroom 2/Kitchen/Family	Concrete Above Plasterboard 150mm	6.80	No Insulation	Carpet 10mm
Bedroom 2	Suspended Concrete Slab 150mm	15.20 Totally Open	Bulk Insulation in Contact with Floor R2	Carpet 10mm
WC-FF/Kitchen/Family	Concrete Above Plasterboard 150mm	3.60	No Insulation	Ceramic Tiles 8mm
Bath/Kitchen/Family	Concrete Above Plasterboard 150mm	9.90	No Insulation	Ceramic Tiles 8mm
Bath/Ptry	Timber Above Plasterboard 150mm	1.20	No Insulation	Ceramic Tiles 8mm
Rumpus/Kitchen/Family	Concrete Above Plasterboard 150mm	41.20	No Insulation	Carpet 10mm
Rumpus/Ldry	Timber Above Plasterboard 150mm	5.20	No Insulation	Carpet 10mm
Rumpus/WC-G	Timber Above Plasterboard 150mm	3.30	No Insulation	Carpet 10mm



Location	Construction	Area Sub-floor (m) ventilation	Added insulation n (R-value)	Covering
Rumpus/Entry	Concrete Above Plasterboard 150mm	9.70	No Insulation	Carpet 10mm
Ptry	Concrete Slab on Ground 100mm	6.50 None	No Insulation	Ceramic Tiles 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Garage	Concrete, Plasterboard	Bulk Insulation R2.5	No
Garage	Concrete Above Plasterboard	Bulk Insulation R2.5	No
Storage	Concrete, Plasterboard	Bulk Insulation R2.5	No
Storage	Concrete Above Plasterboard	No Insulation	No
Pdr	Concrete Above Plasterboard	No Insulation	No
Living	Concrete Above Plasterboard	No Insulation	No
Bedroom G	Concrete Above Plasterboard	No Insulation	No
Ens-G	Concrete Above Plasterboard	No Insulation	No
Kitchen/Family	Plasterboard	Bulk Insulation R3.5	No
Kitchen/Family	Concrete Above Plasterboard	No Insulation	No
Ldry	Plasterboard	Bulk Insulation R3.5	No
Ldry	Timber Above Plasterboard	No Insulation	No
WC-G	Timber Above Plasterboard	No Insulation	No
Entry	Concrete Above Plasterboard	No Insulation	No
Bedroom M	Plasterboard	Bulk Insulation R3.5	No
WIR-M	Plasterboard	Bulk Insulation R3.5	No
Ens-M	Plasterboard	Bulk Insulation R3.5	No
Bedroom 3	Plasterboard	Bulk Insulation R3.5	No
Bedroom 2	Plasterboard	Bulk Insulation R3.5	No
WC-FF	Plasterboard	Bulk Insulation R3.5	No
Bath	Plasterboard	Bulk Insulation R3.5	No
Rumpus	Plasterboard	Bulk Insulation R3.5	No
Ptry	Plasterboard	Bulk Insulation R3.5	No
Ptry	Timber Above Plasterboard	No Insulation	No

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm ²)	Sealed/unsealed	
Pdr	1	Exhaust Fans	150	Sealed	
Bedroom M	4	Downlights - LED	50	Sealed	
WIR-M	1	Downlights - LED	50	Sealed	
Ens-M	1	Downlights - LED	50	Sealed	



Location	Quantity	Туре	Diameter (mm)	Sealed/unsealed	
Bedroom 3	4	Downlights - LED	50	Sealed	
Bedroom 2	4	Downlights - LED	50	Sealed	
WC-FF	1	Downlights - LED	50	Sealed	
Bath	1	Downlights - LED	50	Sealed	
Rumpus	6	Downlights - LED	50	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
Corrugated Iron	Bulk, Reflective Side Down, Anti-glare Up R1.3	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 softw are 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 dow nlights, 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	
Conditioned	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 me.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	the NOC groups buildings by their function and use, and assigns a classification code. NatHERS software models NOC Class 1, 2 or 4	
(NOC) Class	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.	
	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional	
Provisional value	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).	