Nationwide House Energy Rating Scheme NatHERS Certificate No. 0007084759-01

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Property

Address 113 Woolcott Street, Earlwood, NSW

2206

Lot/DP 3/211306

NCC Class'

Type **New Dwelling**

Plans

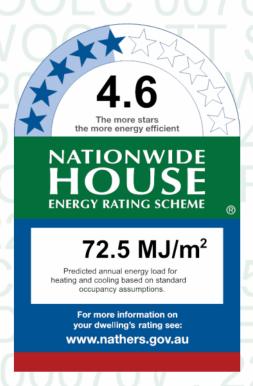
Garage

Main Plan n/a

Prepared by n/a

Construction and environn

Assessed floor a	Exposure Type	
Conditioned*	226.0	Suburban
Unconditioned*	187.0	NatHERS climate zone
Total	413.0	56



Thermal performance

Heating Cooling 46.3 26.2 MJ/m^2 MJ/m^2

ccredited assessor

Name Zoran Cvetkovski

Business name Sustainability-Z

Email sustainability-z@outlook.com

Phone 0414273176 Accreditation No. DMN/13/1641

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration not completed

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=nmgJVAaMS.

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

Rated with provisional values for downlights. All downlights: IC-F /IC-4/ (insulation covered/

including the control gears/) rated as per AS/NZS standard 60598 and IP (sealed) rated as per BS

EN 60529:1992, European IEC 60509:1989.

Rated with ceiling fans (1200mm) in Ktch/Liv/Din, Master Suite, Bed E and Bed N.

Rated with AWS windows.

All coffer ceiling verticals and walls against the roof-space, to be insulated, with the same

insulation as the ceiling insulation.

Where the roof is extended over an open area such as a deck or carport: A barrier to be installed

within the roof space to separate the space above the zoned part of the house and the space

above the open veranda.

I have modeled the shading in accordance with NatHERS principles

Window and glazed door type and performance

Default* windows

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	31130	SHGC lower limit	SHGC upper limit	
TIM-002-01 W	TIM-002-01 W Timber B SG Clear	5.4	0.63	0.60	0.66	



Custom* windows

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
Willdow ID	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	
AWS-011-05 A	AWS-011-05 A 541/542 Al Sliding Door SG 6.38Sct	4.4	0.59	0.56	0.62	
AWS-066-08 A	AWS-066-08 A RES SERIES 516 FIXED WINDOW SG 5mmEnTech	4.0	0.64	0.61	0.67	
AWS-001-19 A	AWS-001-19 A 502/504 Al Sliding Window SG 638CP	4.5	0.59	0.56	0.62	
AWS-001-05 A	AWS-001-05 A 502/504 Al Sliding Window SG 6.38CP	4.6	0.45	0.43	0.47	
AWS-011-06 A	AWS-011-06 A 541/542 Al Sliding Door SG 6.38CP	4.4	0.45	0.43	0.47	
AWS-066-02 A	AWS-066-02 A RES SERIES 516 FIXED WINDOW SG 638ComPlyNtl	3.9	0.47	0.45	0.49	

Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
Study-GF	AWS-011-05 A	n/a	2100	2100	n/a	45	Е	No
Study-GF	AWS-066-08 A	n/a	400	2100	n/a	00	E	No
Bath-GF	AWS-001-19 A	n/a	1000	1570	n/a	10	S	No
Play Room-GF	AWS-001-19 A	n/a	1200	1810	n/a	10	S	No
Butlers Ktch-GF	AWS-001-05 A	n/a	600	2410	n/a	45	N	No
Entry/Stairs-GF	TIM-002-01 W	n/a	440	1180	n/a	00	Е	No
Ktch/Liv/Din	AWS-001-19 A	n/a	600	2810	n/a	45	S	No
Ktch/Liv/Din	AWS-011-05 A	n/a	2400	8000	n/a	60	W	No
Ktch/Liv/Din	AWS-001-05 A	n/a	600	2410	n/a	45	N	No
Void/Stairs-FF	AWS-066-08 A	n/a	2500	2100	n/a	00	Е	No
Bed E-FF	AWS-001-05 A	n/a	1200	950	n/a	10	N	No
Bed E-FF	AWS-011-06 A	n/a	1800	2000	n/a	45	Е	No
Bed E-FF	AWS-066-02 A	n/a	400	2000	n/a	00	Е	No
Bed N-FF	AWS-001-05 A	n/a	1200	1810	n/a	10	N	No
ENS/M.Suite-FF	AWS-001-05 A	n/a	1200	1890	n/a	10	W	No
ENS/M.Suite-FF	AWS-001-05 A	n/a	900	610	n/a	10	N	No
Master Suite-FF	AWS-001-05 A	n/a	1200	2100	n/a	10	W	No
Master Suite-FF	AWS-001-05 A	n/a	1200	1600	n/a	10	W	No
WIR/M.Suite-FF	AWS-001-05 A	n/a	1200	1390	n/a	10	W	No
Bed S-FF	AWS-001-19 A	n/a	1200	1810	n/a	10	S	No
Bath-FF	AWS-001-19 A	n/a	1000	1210	n/a	10	S	No
Sitting-FF	AWS-011-05 A	n/a	2100	2100	n/a	45	E	No
Sitting-FF	AWS-066-08 A	n/a	400	2100	n/a	00	E	No
Sitting-FF	AWS-001-19 A	n/a	600	2410	n/a	10	S	No
WC-FF	AWS-001-05 A	n/a	900	610	n/a	10	N	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

Window Window **Opening** Height Width Outdoor Indoor Location Orientation % shade ID no. (mm) (mm) 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 Ava	ailable						

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation	
Garage-Basement	2200	2650	90	E	
Garage-Basement	2040	820	90	N	
Entry/Stairs-GF	2100	1180	90	Е	

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
EW-1	Cavity Brick	0.50	Medium	No insulation	No
EW-2	Concrete Block	0.50	Medium	No insulation	No
EW-3	Concrete Block	0.50	Medium	No insulation	No
EW-4	Brick Veneer	0.30	Light	Bulk Insulation R2.5	No
EW-5	Fibro Cavity Panel on Battens	0.50	Medium	Bulk Insulation R2.5	No



Wall	Wall	Solar	Wall shade	Bulk insulation	Reflective wall wrap*
ID	type	absorptance	(colour)	(R-value)	
EW-6	Brick Veneer	0.85	Dark	Bulk Insulation R2	No

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Garage-Basement	EW-1	2450	3355	N	100	NO
Garage-Basement	EW-2	1900	4900	E	0	NO
Garage-Basement	EW-2	550	4900	E	100	NO
Garage-Basement	EW-3	1900	1400	S	0	YES
Garage-Basement	EW-3	550	1400	S	100	YES
Garage-Basement	EW-2	1900	1200	E	0	YES
Garage-Basement	EW-2	550	1200	E	100	YES
Garage-Basement	EW-3	2450	20900	S	100	NO
Garage-Basement	EW-3	2450	9800	W	100	NO
Garage-Basement	EW-2	2450	11900	N	100	NO
Garage-Basement	EW-1	2450	3700	E	2500	YES
Garage-Basement	EW-1	2450	2355	N	3800	YES
Study-GF	EW-4	2700	3295	E	2800	YES
Study-GF	EW-4	2700	2595	S	100	NO
Bath-GF	EW-4	2700	2090	S	100	NO
Play Room-GF	EW-4	2700	3590	S	100	NO
Butlers Ktch-GF	EW-4	2700	3295	N	100	NO
Butlers Ktch-GF	EW-4	2700	2395	E	4000	NO
Store-GF	EW-4	2700	1295	E	3600	YES
Entry/Stairs-GF	EW-4	2700	6695	N	3800	YES
Entry/Stairs-GF	EW-4	2700	2800	E	1500	NO
Entry/Stairs-GF	EW-4	2700	1300	S	3400	YES
Ktch/Liv/Din	EW-4	2700	6295	S	100	NO
Ktch/Liv/Din	EW-4	2400	9800	W	5300	NO
Ktch/Liv/Din	EW-4	2700	5895	N	100	NO
Void/Stairs-FF	EW-4	2700	1300	S	3800	YES
Void/Stairs-FF	EW-4	2700	3200	N	500	YES
Void/Stairs-FF	EW-4	2700	2800	E	1700	NO
Bed E-FF	EW-4	2700	4095	N	500	NO
Bed E-FF	EW-4	2700	3695	E	500	YES
Bed N-FF	EW-4	2700	3990	N	500	NO
ENS/M.Suite-FF	EW-5	2700	1995	W	500	NO
ENS/M.Suite-FF	EW-4	2700	800	W	500	NO
ENS/M.Suite-FF	EW-4	2700	3595	N	500	NO



Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
Master Suite-FF	EW-5	2700	4795	W	500	NO
WIR/M.Suite-FF	EW-4	2700	4595	S	500	NO
WIR/M.Suite-FF	EW-4	2700	800	W	500	NO
WIR/M.Suite-FF	EW-5	2700	1400	W	500	NO
Bed S-FF	EW-4	2700	3290	S	500	NO
Bath-FF	EW-4	2700	3590	S	500	NO
Sitting-FF	EW-4	2700	3295	E	3000	YES
Sitting-FF	EW-4	2700	3095	S	500	NO
WC-FF	EW-4	2700	990	N	500	NO
Stairs-Basement	EW-1	2450	4510	N	100	NO

Internal wall type

Wall ID	Wall type	Area (m²)	Bulk insulation
IW-1 - Concrete Block		17.00	Bulk Insulation, No Air Gap R2
IW-2 - Cavity wall, direct fix plasterboard, single gap		242.00	No insulation

Floor type

Location	Construction		Sub-floor ventilation	Added insulation (R-value)	Covering
Garage-Basement	Concrete Slab on Ground 100mm	173.00	None	No Insulation	Bare
Study-GF/Garage-Basement	Concrete Above Plasterboard 100mm	8.30		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bath-GF/Garage-Basement	Concrete Above Plasterboard 100mm	6.50		Bulk Insulation R2	Ceramic Tiles 8mm
Play Room-GF/Garage- Basement	Concrete Above Plasterboard 19mm	11.40		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Butlers Ktch-GF/Garage- Basement	Concrete Above Plasterboard 150mm	1.50		Bulk Insulation R2	Ceramic Tiles 8mm
Butlers Ktch-GF	Suspended Concrete Slab 150mm	5.60	Totally Open	Bulk Insulation in Contact with Floor R2	Ceramic Tiles 8mm
Store-GF/Garage-Basement	Concrete Above Plasterboard 150mm	2.50		Bulk Insulation R2	Ceramic Tiles 8mm
Store-GF	Suspended Concrete Slab 150mm	2.90	Totally Open	Bulk Insulation in Contact with Floor R2	Ceramic Tiles 8mm
Entry/Stairs-GF/Garage- Basement	Concrete Above Plasterboard 150mm	18.80		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Entry/Stairs-GF/Stairs- Basement	Timber Above Plasterboard 150mm	4.90		No Insulation	Carpet+Rubber Underlay 18mm
Ktch/Liv/Din/Garage- Basement	Concrete Above Plasterboard 150mm	61.40		Bulk Insulation R2	60/40 Carpet 10mm/Ceramic
Void/Stairs-FF/Entry/Stairs- GF	Timber Above Plasterboard 19mm	18.00		No Insulation	Carpet+Rubber Underlay 18mm
Bed E-FF/Butlers Ktch-GF	Timber Above Plasterboard 19mm	1.30		No Insulation	Carpet+Rubber Underlay 18mm
Bed E-FF	Suspended Timber Floor 19mm	12.50	Totally Open	Bulk Insulation, Gap to Floor R2	Carpet+Rubber Underlay 18mm
Bed N-FF/Butlers Ktch-GF	Timber Above Plasterboard 19mm	5.60		No Insulation	Carpet+Rubber Underlay 18mm



Location	Construction		Sub-floor ventilation	Added insulation (R-value)	Covering
Bed N-FF/Store-GF	Timber Above Plasterboard 19mm	1.20		No Insulation	Carpet+Rubber Underlay 18mm
Bed N-FF/Ktch/Liv/Din	Timber Above Plasterboard 19mm	5.70		No Insulation	Carpet+Rubber Underlay 18mm
ENS/M.Suite- FF/Ktch/Liv/Din	Timber Above Plasterboard 19mm	9.80		No Insulation	Ceramic Tiles 8mm
Master Suite-FF/Ktch/Liv/Din	Timber Above Plasterboard 19mm	25.90		No Insulation	Carpet+Rubber Underlay 18mm
WIR/M.Suite-FF/Ktch/Liv/Din	Timber Above Plasterboard 19mm	9.80		No Insulation	Carpet+Rubber Underlay 18mm
Bed S-FF/Play Room-GF	Timber Above Plasterboard 19mm	5.10		No Insulation	Carpet+Rubber Underlay 18mm
Bed S-FF/Entry/Stairs-GF	Timber Above Plasterboard 19mm	1.00		No Insulation	Carpet+Rubber Underlay 18mm
Bed S-FF/Ktch/Liv/Din	Timber Above Plasterboard 19mm	5.40		No Insulation	Carpet+Rubber Underlay 18mm
Bath-FF/Bath-GF	Timber Above Plasterboard 19mm	3.40		No Insulation	Ceramic Tiles 8mm
Bath-FF/Play Room-GF	Timber Above Plasterboard 19mm	4.20		No Insulation	Ceramic Tiles 8mm
Sitting-FF/Study-GF	Timber Above Plasterboard 19mm	8.30		No Insulation	Carpet+Rubber Underlay 18mm
Sitting-FF/Bath-GF	Timber Above Plasterboard 19mm	3.30		No Insulation	Carpet+Rubber Underlay 18mm
HWY-FF/Play Room-GF	Timber Above Plasterboard 19mm	1.60		No Insulation	Carpet+Rubber Underlay 18mm
HWY-FF/Store-GF	Timber Above Plasterboard 19mm	4.30		No Insulation	Carpet+Rubber Underlay 18mm
HWY-FF/Entry/Stairs-GF	Timber Above Plasterboard 19mm	4.20		No Insulation	Carpet+Rubber Underlay 18mm
HWY-FF/Ktch/Liv/Din	Timber Above Plasterboard 19mm	0.90		No Insulation	Carpet+Rubber Underlay 18mm
WC-FF/Ktch/Liv/Din	Timber Above Plasterboard 19mm	2.20		No Insulation	Carpet+Rubber Underlay 18mm
Stairs-Basement	Concrete Slab on Ground 100mm	4.80	None	No Insulation	Ceramic Tiles 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
Garage-Basement	Concrete	No insulation	No
Garage-Basement	Concrete Above Plasterboard	Bulk Insulation R2	No
Study-GF	Timber Above Plasterboard	No Insulation	No
Bath-GF	Timber Above Plasterboard	No Insulation	No
Play Room-GF	Timber Above Plasterboard	No Insulation	No
Butlers Ktch-GF	Timber Above Plasterboard	No Insulation	No
Store-GF	Timber Above Plasterboard	No Insulation	No
Entry/Stairs-GF	Timber Above Plasterboard	No Insulation	No
Ktch/Liv/Din	Timber Above Plasterboard	No Insulation	No
Void/Stairs-FF	Plasterboard	Bulk Insulation R5	No
Bed E-FF	Plasterboard	Bulk Insulation R5	No
Bed N-FF	Plasterboard	Bulk Insulation R5	No



Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
ENS/M.Suite-FF	Plasterboard	Bulk Insulation R5	No
Master Suite-FF	Plasterboard	Bulk Insulation R5	No
WIR/M.Suite-FF	Plasterboard	Bulk Insulation R5	No
Bed S-FF	Plasterboard	Bulk Insulation R5	No
Bath-FF	Plasterboard	Bulk Insulation R5	No
Sitting-FF	Plasterboard	Bulk Insulation R5	No
HWY-FF	Plasterboard	Bulk Insulation R5	No
WC-FF	Plasterboard	Bulk Insulation R5	No
Stairs-Basement	Concrete	No insulation	No
Stairs-Basement	Timber Above Plasterboard	No Insulation	No

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm²)	Sealed/unsealed
Study-GF	2	Downlights - LED	50	Sealed
Bath-GF	2	Downlights - LED	50	Sealed
Play Room-GF	3	Downlights - LED	50	Sealed
Butlers Ktch-GF	2	Downlights - LED	50	Sealed
Store-GF	1	Downlights - LED	50	Sealed
Entry/Stairs-GF	6	Downlights - LED	50	Sealed
Ktch/Liv/Din	15	Downlights - LED	50	Sealed
Ktch/Liv/Din	1	Exhaust Fans	300	Sealed
Void/Stairs-FF	4	Downlights - LED	50	Sealed
Bed E-FF	3	Downlights - LED	50	Sealed
Bed N-FF	3	Downlights - LED	50	Sealed
ENS/M.Suite-FF	3	Downlights - LED	50	Sealed
Master Suite-FF	7	Downlights - LED	50	Sealed
WIR/M.Suite-FF	2	Downlights - LED	50	Sealed
Bed S-FF	3	Downlights - LED	50	Sealed
Bath-FF	2	Downlights - LED	50	Sealed
Sitting-FF	3	Downlights - LED	50	Sealed
HWY-FF	3	Downlights - LED	50	Sealed
WC-FF	1	Downlights - LED	50	Sealed
Stairs-Basement	2	Downlights - LED	50	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
Ktch/Liv/Din	2	1200



Location	Quantity	Diameter (mm)
Bed E-FF	1	1200
Bed N-FF	1	1200
Master Suite-FF	1	1200

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof shade
Waterproofing Membrane	No Insulation, Only an Air Gap	0.50	Medium
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	0.85	Dark



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 Nath—RS 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, chirmeys and flues. Excludes		
Celling penetrations	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		
Exposure category – open	sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).		
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10me.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 NCC groups buildings by their function and use, and assigns a classification code. NatHEPS software models NCC 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 NatHEPS 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		
NOOI WIIIGOW	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		
Solar fleat gain coefficient (Shoc)	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 chading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy		
Vertical shading features	screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).		