Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 234FD1EM7A-02

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Property

Address 2, 23 Nella Street Padstow,

Padstow, NSW, 2211

Lot/DP 15/-/DP30120 **NCC Class*** Class 1a

Floor/all Floors

Type New Home

Plans

Main plan 12/08/2024 Prepared by AJ CG

Construction and environment

Assessed floor area [m²]*
Conditioned* 107.5

Unconditioned* 28.7

Total 136.2

Garage 20.2

Exposure type

suburban

NatHERS climate zone

56 Mascot AMO



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Phone 0490511593
Accreditation No. 101225
Assessor Accrediting Organisation

ABSA

Declaration of interest No

NCC Requirements

NCC provisions Volume 2 State/Territory variation Yes

National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

Thermal performance star rating



Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	16.7	13.2
Load limits	N/A	N/A

Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate

Verification

To verify this certificate, scan the QR code or visit https://w ww.fr5.com.au/QRCodeLand ing?PublicId=234FD1EM7A-02 When using either link, ensure you are visiting www.fr5.com.au.





About the ratings

Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

Heating & Cooling Load Limits

Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB NatHERS heating and cooling load limits Standard 2022 for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

Setting options:

Floor type:

CSOG - Concrete Slab on Ground

SF – Suspended Floor (or a mixture of CSOG and SF)

NA - Not Applicable

NCC climate Zone 1 or 2:

Yes

No

NA – not applicable

Outdoor living area:

Yes

Nο

NA - not applicable

Outdoor living area ceiling fan:

Yes

No

NA - not applicable



Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

Certificate check	Approval	stage	Construct stage		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assesso	Consen	Builder	Consen	Occupa
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check			<u> </u>		
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls			,		
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?					
Floor		'		'	
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the <i>'Floor type'</i> table on this certificate?					
Ceiling penetrations*		I		ı	
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate?					
Roof		I	1	ı	
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
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 type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*		'		'	
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?					

	Approval	stage	Construct stage	tion	
Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Additional NCC requirements for thermal performance (not included	in the Na	tHERS a	ssessme	nt)	'
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method		'	'	1	1
Has the insulation been installed according to the NCC requirements?					
Building sealing		'	'		
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home per	formance a	ssessmen	t is not con	ducted)	1
Appliances					
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?					
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?					
Additional NCC Requirements for Services (not included in the Nath	ERS asse	essment)			
Does the lighting meet the artificial lighting requirements specified in the NCC?					
Does the hot water system meet the additional requirements specified in the NCC?					
Provisional values* check					
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?					
Other NCC requirements					ı
Note: This Certificate only covers the energy efficiency requirements in the NCC. A	dditional re	auirement	s that must	also he sa	tiefied

Note: This Certificate only covers the energy efficiency requirements in the NCC. Additional requirements that must also be satisfied include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.

Additional notes

- 1. Roof colour to be as per certificate
- 2. All insulation type may be replaced with similar R-value
- 3. All window type may be replaced with similar u-value and SHGC

Room schedule

Room	Zone Type	Area [m²]
Garage	garage	20.2
LDRY	unconditioned	3.6
Pantry	dayTime	5.2
WC	dayTime	2.5
Kitchen/Living	kitchen	33.1
Hallway	dayTime	20
Bedroom 2	bedroom	12.3
Bath	unconditioned	4.9
Bedroom Master	bedroom	16.1
ENS	nightTime	4.6
WIR	nightTime	3.9
Hallway	dayTime	15.2

Window and glazed door type and performance

Default* windows

Window ID				Substitution tolerance ranges		
	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7	0.66	0.74	
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57	0.54	0.6	
ALM-001-03 A	Aluminium A SG High Solar Gain Low-E	5.4	0.49	0.47	0.51	

Custom* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
AWS-001-05 A	502/504 Al Sliding Window SG 6.38CP	4.59	0.45	0.43	0.47	
AWS-066-03 A	RES SERIES 516 FIXED WINDOW SG 638ComPlsClr	3.91	0.62	0.59	0.65	
AWS-011-06 A	541/542 Al Sliding Door SG 6.38CP	4.38	0.45	0.43	0.47	
AWS-067-51 A	RES SERIES 516 FIXED WINDOW DG 4mmLoE-366-12Ar-4mmClr	2.11	0.25	0.24	0.26	

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Kitchen/Living	AWS-001-05 A	5	1500	2000	sliding	45.0	N	No
Kitchen/Living	AWS-066-03 A	2	2400	1200	fixed	0.0	N	No

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Kitchen/Living	AWS-066-03 A	2	2400	1200	fixed	0.0	W	No
Kitchen/Living	AWS-011-06 A	D7	2400	3000	sliding	60.0	W	No
Hallway	ALM-002-01 A	4GF	3200	900	fixed	0.0	E	No
Bedroom 2	AWS-067-51 A	3	1500	1200	fixed	0.0	N	No
Bedroom 2	AWS-067-51 A	3	1500	1200	fixed	0.0	W	No
Bath	ALM-001-01 A	1	1500	900	awning	60.0	N	No
Bedroom Master	ALM-001-03 A	D8	2400	1700	casement	90.0	E	No
Bedroom Master	ALM-002-01 A	FW2408	2400	850	fixed	0.0	E	No
ENS	AWS-067-51 A	FE2416	2400	1650	fixed	0.0	E	No
Hallway	ALM-002-01 A	4L1	1600	900	fixed	0.0	E	No

Roof window* type and performance value

Default* roof windows

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

Custom* roof windows

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

Roof window* schedule

No Doto Avo	ilabla							
Location	Window ID	Window no.	%	[m²]	[mm]	Orientation	shade	shade
			Opening	g Area	wiatn		Outdoor	inaoor

No Data Available

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

			Skylight shaft	Area	Orient-	Outdoor	
Location	Skylight ID	Skylight No.	length [mm]	[m²]	ation	shade	Diffuser
No Data							
Available							

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage	2500	2750	100.0	E
LDRY	2400	920	100.0	N
Hallway	2400	1010	100.0	E

External wall type

Wall ID	Wall type	Solar absorptance	Trail Chado	Bulk insulation [R-value]	Reflective wall wrap*
1	EX-01 - RENDER	0.2	Light	Glass fibre batt: R2.5 (R2.5)	Yes
2	EX-01 - DB-PARTY	0.5	Medium	Polyurethane rigid foamed aged: R1.5 (R1.5)	No

External wall schedule

					Horizontal shading	
1 4!	W-II ID	Height	Width	0-1	feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]		projection [mm]	feature* (yes/no)
Garage	1	3200	999	S	1573	Yes
Garage	1	3200	3440	E	266	Yes
Garage	1	3200	5882	N	0	Yes
LDRY	1	3200	1795	N	0	Yes
Pantry	2	3200	3169	S	0	No
WC	2	3200	1510	S	0	No
Kitchen/Living	2	3200	3087	S	0	No
Kitchen/Living	1	3200	5555	N	0	Yes
Kitchen/Living	1	3200	6720	W	2525	Yes
Hallway	1	3200	3178	E	1265	Yes
Hallway	2	3200	4374	S	0	No
Bedroom 2	2	2700	3521	S	0	No
Bedroom 2	1	2700	3521	N	0	Yes
Bedroom 2	1	2700	3491	W	0	Yes
Bath	1	2700	2212	N	0	Yes
Bedroom Master	1	2700	3198	E	1269	Yes
Bedroom Master	1	2700	4853	N	0	No
Bedroom Master	1	2700	3197	W	0	Yes
ENS	1	2700	2333	E	1272	Yes
Hallway	2	2700	8781	S	0	No
Hallway	1	2700	1000	E	0	Yes
Hallway	1	2700	1561	N	0	Yes

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	138.8	Glass fibre batt: R2.5 (R2.5)

Floor type



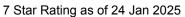
Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	n Covering
Garage	FR5 - CSOG: Slab on Ground	2.6	Enclosed	R2.0	none
Garage	FR5 - CSOG: Slab on Ground	17.6	Enclosed	R2.0	none
LDRY	FR5 - CSOG: Slab on Ground	3.6	Enclosed	R2.0	Tiles
Pantry	FR5 - CSOG: Slab on Ground	5.2	Enclosed	R2.0	Timber
WC	FR5 - CSOG: Slab on Ground	2.5	Enclosed	R2.0	Tiles
Kitchen/Living	FR5 - CSOG: Slab on Ground	17.8	Enclosed	R2.0	Timber
Kitchen/Living	FR5 - CSOG: Slab on Ground	15.3	Enclosed	R2.0	Timber
Hallway	FR5 - CSOG: Slab on Ground	2	Enclosed	R2.0	Timber
Hallway	FR5 - CSOG: Slab on Ground	18	Enclosed	R2.0	Timber
Bedroom 2	FR5 - Timber Lined	12.3	Enclosed	R2.5	Timber
Bath	FR5 - Timber Lined	4.9	Enclosed	R2.5	Tiles
Bedroom Master	FR5 - Timber Lined	16.1	Enclosed	R2.5	Timber
ENS	FR5 - Timber Lined	4.6	Enclosed	R2.5	Tiles
WIR	FR5 - Timber Lined	3.9	Enclosed	R2.5	Timber
Hallway	FR5 - Timber Lined	15.2	Enclosed	R2.5	Timber

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Garage	Plasterboard	R6.0	No
Garage	FR5 - Timber Lined	R2.5	No
LDRY	Plasterboard	R6.0	Yes
Pantry	FR5 - Timber Lined	R2.5	No
WC	FR5 - Timber Lined	R2.5	No
Kitchen/Living	Plasterboard	R6.0	Yes
Kitchen/Living	FR5 - Timber Lined	R2.5	No
Hallway	Plasterboard	R6.0	Yes
Hallway	FR5 - Timber Lined	R2.5	No
Bedroom 2	Plasterboard	R6.0	Yes
Bath	Plasterboard	R6.0	Yes
Bedroom Master	Plasterboard	R6.0	Yes
ENS	Plasterboard	R6.0	Yes

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WIR	Plasterboard	R6.0	Yes
Hallway	Plasterboard	R6.0	Yes

Ceiling penetrations*

			Height	Width	
Location	Quantity	Type	[mm]	[mm]	Sealed/unsealed
LDRY	1	Exhaust Fans	250	250	Sealed
Pantry	1	Downlights	50	50	Sealed
WC	1	Exhaust Fans	250	250	Sealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed
Kitchen/Living	12	Downlights	50	50	Sealed
Hallway	6	Downlights	50	50	Sealed
Bedroom 2	2	Downlights	50	50	Sealed
Bath	1	Exhaust Fans	250	250	Sealed
Bedroom Master	2	Downlights	50	50	Sealed
ENS	1	Exhaust Fans	250	250	Sealed
WIR	1	Downlights	50	50	Sealed
Hallway	6	Downlights	50	50	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Kitchen/Living	2	1800
Bedroom 2	1	1400
Bedroom Master	1	1400

Roof type

	Added insulatio	n	
Construction	[R-value]	Solar absorptance	Roof shade [colour]
Framed:Flat - Flat Framed (Metal Deck)	0.0	0.64	Dark
Cont:Attic-Continuous	1.8	0.64	Dark

Thermal bridging schedule for steel frame elements

	Steel section dimensions		Steel thickness	Thermal break
Building element	[height x width, mm]	Frame spacing [mm]	[BMT,mm]	[R-value]

No Data Available

Appliance schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

Note: A flat assumption of 5W/m2 is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system

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Appliance/ system type Location Fuel type Minimum efficiency/ Recommended capacity

No Whole of Home performance assessment conducted for this certificate.

Heating system

Appliance/ system type Location Fuel type Performance Recommended capacity

No Whole of Home performance assessment conducted for this certificate.

Hot water system

Minimum
efficiency/ Hot Water CER Assessed daily
Appliance/ system type Fuel type performance Zone Zone 3 STC load

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

Appliance/ system type Fuel type Minimum efficiency/ Recommended capacity

No Whole of Home performance assessment conducted for this certificate.

Onsite renewable energy schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System type Orientation System size or generation capacity

No Whole of Home performance assessment conducted for this certificate.

Battery schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

System type Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

Explanatory Notes

About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary. Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings 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, behaviour, appliance performance, indoor air temperature and local climate.

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

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
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, range hoods, 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.
СОР	Coefficient of performance
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.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilate corridor in a Class 2 building.
Exposure category – exposed	Iterrain 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 –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category –	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
protected 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.
Net zero home	a home that achieves a net zero energy value*.
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
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate air gap 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 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	

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NATIONWIDE HOUSE

	1001/1009/1009
STCs	Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought
	and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulatory
Thermal breaks	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is
	not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as polystyrene
	insulation sheeting, plastic strips or furring channels.
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).
Window shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)