Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 0009834615

Generated on 23 Oct 2024 using BERS Pro v5.1.9 (3.23)

Property

Unit 1, 29 Myall Street, Address

TEA GARDENS, NSW, 2324

Lot/DP Lot 14 DP 13103

NCC class'

G of 1 floors Floor/all Floors New Home Type

Plans

Main plan 1324

Prepared by Superior Home Designs

Construction and environment

Assessed floor area [m2]*

125.3

Conditioned* Unconditioned* 17.7

Total 182.9

Garage 39.9 Exposure type

Suburban

NatHERS climate zone

11 Coffs Harbour



Joseph Lorriman

Business name Evergreen Energy Consultants Pty Ltd

Email enquiries@evergreenec.com.au

Phone 1300 584 010 Accreditation No. DMN/16/1742

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declared, refer to "Additional Notes" on

page 2

NCC Requirements

NCC provisions Volume Two

Strate/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



NATIONWIDE

25.2 MJ/m²

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 [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling		
Modelled	10.3	14.9		
Load limits	N/A	N/A		

Features determining load limits

Floor Type (lowest conditioned area)	csog
NCC climate zone 1 or 2	No
Outdoor living area	No
Outdoor living area ceiling fan	No

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 hstar.com.au/QR/Generate? p=SyBWPIFRs . When using either link,

ensure you are visiting hstar.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.

Predicted Whole of Home annual impact by appliance

Energy use

No Whole
of Home
performance
assessment
conducted for 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 Standard 2022: NatHERS heating and cooling load limits 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

Νo

NA - Not Applicable

Outdoor Living Area Ceiling Fan:

Yes

No

NA - Not Applicable



No Whole of Home

Greenhouse gas emissions

Cost

No Whole of Home performance assessment conducted for this certificate

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

000983	4615	NatHFRS	Certificate

7.9 Star Rating as of 23 Oct 2024

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Certificate check	Approva	I Stage	Construction 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 by whom each item should be checked. It is not mandatory to complete this checklist.	Asses	Conse	Builde	Conse	Occup
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					
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 'Floor type' table on this certificate?					
Ceiling penetrations*					
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					
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 highrise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown					

000983	4615	NatHFRS	Certificate

7.9 Star Rating as of 23 Oct 2024

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	Approva	l Stage	Construction Stage		
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not include	ıded in ti	he NatHE	RS asse	ssment)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
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 Hom	e performa	ance asses	ssment is r	not conduc	ted)
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	NatHERS	assessi	nent)		
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					
Note: This Certificate only covers the energy efficiency requirements in the NCC. Addibut are not limited to: condensation, structural and fire safety requirements and any st requirements.					
Additional notes					
Important information about this certificate. This certificate is not a building s	pecificatio	n. Specific	ations		
used for the assessment are attached to the stamped plans and in the asses	ssor certific	cate issue	d by EEC.		
Information in this certificate may appear to be incorrect and should be interpolated	oreted by a	an accredit	ted assess	sor.	



Conditioned and un-conditioned areas stated are not calculated in accordance with the BASIX definition.

Glazing tolerances in this certificate vary to the BASIX tolerances. For BASIX the SHGC can be +/- 10%.

Room schedule

Room	Zone Type	Area [m ²]
Bedroom 1	Bedroom	14.39
Bath	Unconditioned	6.05
Bedroom 2	Bedroom	14.71
Bedroom 3	Bedroom	12.18
Laundry/Bath	Unconditioned	11.69
Kitchen/Living	Kitchen/Living	84.01
Garage 1	Garage	39.9

Window and glazed door type and performance

Default windows*

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

Custom windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges			
window iD	Description	on U-value*		SHGC lower limit	SHGC upper limit		
GJA-013-16 A	Type 131 Aluminium Sliding Window SG	6.3	0.73	0.69	0.77		
	6Clr						
GJA-050-01 A	050 Series Louvre-48 Al Frame w 102 Altair SG 6Clr	6.3	0.72	0.68	0.76		
GJA-090-12 A	Type 477 Aluminium Bi-Fold Door SG 6Clr	6.0	0.64	0.61	0.67		

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Bedroom 1	GJA-013-16 A	n/a	1700	2200	Sliding	45	N	No
Bath	GJA-013-16 A	n/a	600	600	Sliding	45	W	No
Bath	GJA-013-16 A	n/a	600	800	Sliding	45	W	No

0009834615 NatHE	ERS Certificate	7.9 Star Rating	7.9 Star Rating as of 23 Oct 2024					
Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Bedroom 2	GJA-013-16 A	n/a	1200	2100	Sliding	45	W	No
Bedroom 3	GJA-013-16 A	n/a	1460	1200	Sliding	45	S	No
Laundry/Bath	GJA-050-01 A	n/a	2000	1800	Louvre	30	S	No
Kitchen/Living	GJA-013-16 A	n/a	1700	2500	Sliding	45	N	No
Kitchen/Living	GJA-013-16 A	n/a	1460	1800	Sliding	45	N	No
Kitchen/Living	GJA-013-16 A	n/a	1460	1800	Sliding	45	N	No
Kitchen/Living	GJA-090-12 A	n/a	1460	2400	Bifold	90	E	No
Kitchen/Living	GJA-013-16 A	n/a	1460	1500	Sliding	45	S	No
Kitchen/Living	GJA-090-12 A	n/a	2350	3200	Bifold	90	Е	No

Roof window* type and performance value

Default roof windows*

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
Window ID	Description U-value*		SHGC	SHGC lower limit	SHGC upper limit
No Data Avail	lable				

Custom roof windows*

Window ID	Window	Maximum	CHCC*	Substitution to	lerance ranges
window iD	indow ID Description U-value* SHGC*	SHGC lower limit	SHGC upper limit		
No Data Avai	lable				

Roof window* schedule

Location	Window ID	Window no.	Opening %	Height [mm]	Width [mm]	Orientation	Outdoor shade	Indoor shade
No Data Ava	ailable							

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m²]	Orientation	Outdoor shade	Diffuser
No Data Ava	ilable						



Location

Skylight ID

Skylight No.

Skylight shaft length [mm]

Area [m²]

Orientation

Outdoor shade

Diffuser

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Kitchen/Living	2100	870	90	W
Garage 1	2100	5100	90	W

External wall type

Wall	Wall	Solar Wall sh	ade Bulk insulation	Reflective
ID	type	absorptance [colour]] [R-value]	wall wrap*
EW-1	Metal Clad Timber Stud Frame Direct Fix	0.50	Anti-glare foil with bulk no gap R2	No
EW-2	2 Fibro Timber Stud Frame Panel Direct Fix	0.50	Anti-glare foil with bulk no gap R2	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Bedroom 1	EW-1	3035	4295	N	500	No
Bedroom 1	EW-1	3035	3395	W	300	No
Bath	EW-1	3035	1100	S	11400	No
Bath	EW-1	3035	2395	W	300	No
Bedroom 2	EW-1	3035	1100	N	7600	No
Bedroom 2	EW-1	3035	1600	S	6600	No
Bedroom 2	EW-1	3035	3500	W	300	No
Bedroom 3	EW-2	3035	1595	S	500	No
Laundry/Bath	EW-2	3035	3495	E	6700	No
Laundry/Bath	EW-2	3035	3395	S	500	No
Kitchen/Living	EW-1	3035	11095	N	500	No
Kitchen/Living	EW-2	3035	3100	E	4500	No
Kitchen/Living	EW-2	3035	2200	S	8000	No
Kitchen/Living	EW-2	3035	3995	E	6700	No
Kitchen/Living	EW-1	3035	1290	W	1400	No
Garage 1	EW-1	3035	6095	Е	300	No
Garage 1	EW-1	3035	6600	S	500	No

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Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]	
Garage 1	FW-1	3035	6095	W	1900	No	

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	87.71	No insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	11.84	Bulk Insulation, No Air Gap R2

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bedroom 1	Waffle pod slab 300 mm 100mm	14.39	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Bath	Waffle pod slab 300 mm 100mm	6.05	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Bedroom 2	Waffle pod slab 300 mm 100mm	14.71	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Bedroom 3	Waffle pod slab 300 mm 100mm	12.18	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
Laundry/Bath	Waffle pod slab 300 mm 100mm	11.69	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Kitchen/Living	Waffle pod slab 300 mm 100mm	84.01	None	Waffle Pod 300mm	Ceramic Tiles 8mm
Garage 1	Waffle pod slab 300 mm 100mm	39.90	None	Waffle Pod 300mm	Bare

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Bedroom 1	Plasterboard on Timber	Bulk Insulation R3	
Bath	Plasterboard on Timber	Bulk Insulation R3	
Bedroom 2	Plasterboard on Timber	Bulk Insulation R3	
Bedroom 3	Plasterboard on Timber	Bulk Insulation R3	
Laundry/Bath	Plasterboard on Timber	Bulk Insulation R3	
Kitchen/Living	Plasterboard on Timber	Bulk Insulation R3	
Garage 1	Plasterboard on Timber	Bulk Insulation R3	



Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Bath	2	Exhaust Fans	300	Sealed
Laundry/Bath	2	Exhaust Fans	300	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

Roof type

Construction Added insulation [R-value]		Solar absorptance	Roof shade [colour]
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.50	Medium

Thermal bridging schedule for steel frame elements

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

	Recommended capacity	
No Data Available		

Heating system

Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available				



Hot water system

Appliance/ system type	Hot Fuel type Water CER Zone	Minimum	72	Zone 3 Substitution		Assessed	
		Water 6	efficiency	Zone 3	toleran	e ranges	daily load
		/STC	310	lower limit	upper limit	[litres]	

No Data Available

Pool/spa equipment

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

No Data Available

Onsite Renewable Energy Schedule

System Type	Orientation	System Size Or Generation Capacity

No Data Available

Battery Schedule

System Type	Size [Battery Storage Capacity]	
No Data Available		



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

AFRC	Australian Fenestration Rating Council
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
Ceiling penetrations	floor area in the design documents. 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.
COP	Treating and accoming ducts. Coefficient of performance
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.
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 ventilated corridor in a Class 2 building.
Exposure	see exposure categories below.
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 – protected	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – suburban	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.
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 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 features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
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.
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.
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 Regulator (CER)
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 or continuous thermal breaks such as polystyrene insulation sheeting or plastic strips
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	device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)