Nationwide House Energy Rating Scheme® NatHERS® Certificate No. #HR-MNE2C2-01

Unit 01, 363 DIAMOND BEACH RD. DIAMOND BEACH, NSW, 2430

Generated on 14 Dec 2023 using Hero 3.1.0.6

Property

Address

Lot/DP NCC Class* Floor/all Floors Туре

LOT PT12 - DP 104390 1a 1 of 2 floors New

Plans

Main Plan Prepared by

22.11.23 REV E CWC

Construction and environment

Assessed floor	area (m²)*
Conditioned*	106.5
Unconditioned*	1.4
Total	107.9
Garage	0.0

Exposure Type

Suburban NatHERS climate zone 15 - Williamtown AMO



Accredited assessor

Name	Adam Clarke
Business name	10 Star Building Asse
Email	admin@10sba.com
Phone	+61 481010999
Accreditation No.	101518
Assessor Accrediting	ABSA
Organisation	
Declaration of interest	No Conflict of Interest

Clarke **Building Assessments** @10sba.com 1010999

NCC Requirements

BCA	n pro	visio	ns	
Stat	e/Te	rritory	v var	iation

Volume 2 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 J2D2(2)(a) and (3) 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



The more stars

the more energy efficient

50.2 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	36.3	13.9
Load limits	47	30

Features determining load limits

Floor type	
(lowest conditioned area)	CSOC
NCC climate zone 1 or 2	Ν
Outdoor living area	N
Outdoor living area ceiling fan	n N

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 http://www.hero-software.com au/pdf/HR-MNE2C2-01 When using either link. ensure you are visiting http://www.hero-software. com.au



* Refer to glossary.

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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 and 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: 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

No

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:



Greenhouse gas emissions:

Cost:





* Refer to glossary.

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7.1	Star	Rating	as	of 1	14	Dec	2023
	••••		au	0.	•••	000	-0-0



Certificate check	Approval 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 who should check each item. It is not mandatory to complete this checklist.	Asses	Conse survey	Builde	Conse survey	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 <i>Window and glazed door</i> <i>schedule</i> ' and <i>'Roof window schedule</i> ' 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 ' <i>External wall type table</i> ' 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*					
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 <i>'Ceiling type'</i> table on this Certifi cate?					
Roof					
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the ' <i>Roof type</i> ' 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 what is shown on the NatHERS-stamped plans?					

7.1 Star Rating as of 14 Dec 2023



Certificate check	Approval	stage	Construc stage	tion	
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 NatHERS assessment)

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 Home	e assessr	nent is no	ot 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 NatHE	RS asses	ssment)			
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. A	dditional re	quirements	that must	also be sat	isfied

include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.



Room schedule

Room	Zone Type	Area (m²)
BATHROOM GRD	Day Time	6.61
BED 2	Bedroom	12.87
POWDER	Day Time	2.88
HALLWAY	Day Time	4.00
PROP SITTING	Living	11.19
BED 3	Bedroom	10.26
STAIRS GRD	Day Time	4.60
BED 1	Bedroom	13.24
BED 1 ENS	Night Time	4.33
WC	Unconditioned	1.39
STAIRS 1ST	Day Time	6.58
KIT / LIV	Kitchen/Living	31.51
LDRY	Day Time	2.16

Window and glazed door type and performance

Default* windows

Window ID	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges
		U-value*		lower limit upper limit
None				

Custom* windows

Window ID	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges		
		U-value*		lower limit	upper limit	
AWS-013-03 A	541/542 AI Sliding Door DG 4/10Ar/4ET	3.20	0.57	0.54	0.60	
AWS-031-28 A	463 AI Double Hung Window DG 4/10Ar/4ET	3.85	0.49	0.47	0.51	
AWS-067-05 A	RES SERIES 516 FIXED WINDOW DG 5mmClr-8Ar- 5mmEnTech	2.55	0.61	0.58	0.64	



Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
BED 1	AWS-031-28 A	1W08	1800	610	Double Hung	20	SSW	None
BED 1	AWS-031-28 A	1W09	1800	610	Double Hung	20	SSW	None
BED 1	AWS-031-28 A	1W10	1800	610	Double Hung	20	SSW	None
BED 2	AWS-031-28 A	1W04	1800	610	Double Hung	45	SSW	None
BED 2	AWS-031-28 A	1W03	1800	610	Double Hung	45	SSW	None
BED 2	AWS-031-28 A	1W02	1800	610	Double Hung	45	SSW	None
BED 3	AWS-031-28 A	1W07	1800	610	Double Hung	45	ESE	None
BED 3	AWS-031-28 A	1W06	1800	610	Double Hung	45	ESE	None
BED 3	AWS-031-28 A	1W05	1800	610	Double Hung	45	ESE	None
KIT / LIV	AWS-013-03 A	1GD03	2100	2110	Sliding Door	45	ESE	None
KIT / LIV	AWS-067-05 A	1W11	600	1210	Fixed	0	ESE	None
KIT / LIV	AWS-013-03 A	1GD02	2100	2110	Sliding Door	45	SSW	None
PROP SITTING	AWS-031-28 A	1W01	1800	610	Double Hung	45	SSW	None

Roof window type and performance value

Default* roof windows

Window ID	Window Descript	ion			Maximum U-value*	SHGC*	SHGC substitution tolerance ranges		
							lower limit	upper lim	
None									
Custom* roof v	vindows								
Window ID	Window Descript	ion			Maximum	SHGC*	SHGC substitution tolerance ranges		
					U-value*		lower limit	upper lim	
None									
Roof wind	ow schedule								
Location	Window ID	Window no.	Opening %	Height (mm)	Width (mm)	Orient- ation	Outdoor shade	Indoor shade	
Nono									

None

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Skylight type and performance

Skylight ID	Skylight description
None	

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m²)	Orient- ation	Outdoor shade	Diffuser	Shaft Reflectance
None								
-								

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
PROP SITTING	2040	920	90	SSW

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
BV-REFL-CAV	Brick Veneer Stud Wall with Reflective Sarking	0.50	Medium	2.50	Yes

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
BED 1	BV-REFL-CAV	2547	647	SSW	1595	Yes
BED 1	BV-REFL-CAV	2547	3330	SSW	1595	Yes
BED 2	BV-REFL-CAV	2734	2743	ESE	1182	Yes
BED 2	BV-REFL-CAV	2734	4691	SSW	1877	Yes
BED 3	BV-REFL-CAV	2734	3032	ESE	1182	Yes
KIT / LIV	BV-REFL-CAV	2547	6008	ESE	1618	Yes
KIT / LIV	BV-REFL-CAV	2547	5689	SSW	1595	Yes
LDRY	BV-REFL-CAV	2734	787	SSW		Yes
PROP SITTING	BV-REFL-CAV	2734	634	SSW	1877	Yes
PROP SITTING	BV-REFL-CAV	2734	3446	SSW	1970	Yes

Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
BV-REFL-CAV	Brick Veneer Stud Wall with Reflective Sarking	30.9	2.50

* Refer to glossary.

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Internal wall type

Wall ID	Wall Type	Area (m²)	Bulk insulation
CAV-BRICK-PB-110-110-PB	PB Cavity Brick Wall - 110mm/110mm PB	19.3	0.00
CSR 2405 PARTIWALL SYSTEM1	CSR 2405 PARTIWALL SYSTEM	50.9	4.00
INT-PB	Internal Plasterboard Stud Wall	68.8	0.00
INT-PB	Internal Plasterboard Stud Wall	11.5	1.50

Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
BATHROOM GRD	CSOG-100: Concrete Slab on Ground (100mm)	6.6	N/A	0.00	Tile
BED 1	TIMB-001: Suspended Timber Floor	13.3	N/A	0.00	Carpet
BED 1 ENS	TIMB-001: Suspended Timber Floor	4.3	N/A	0.00	Tile
BED 2	CSOG-100: Concrete Slab on Ground (100mm)	12.9	N/A	0.00	Carpet
BED 3	CSOG-100: Concrete Slab on Ground (100mm)	10.3	N/A	0.00	Carpet
HALLWAY	CSOG-100: Concrete Slab on Ground (100mm)	4.0	N/A	0.00	Carpet
KIT / LIV	TIMB-001: Suspended Timber Floor	31.6	N/A	0.00	Timber
LDRY	CSOG-100: Concrete Slab on Ground (100mm)	2.2	N/A	0.00	Tile
POWDER	CSOG-100: Concrete Slab on Ground (100mm)	2.9	N/A	0.00	Tile
PROP SITTING	CSOG-100: Concrete Slab on Ground (100mm)	11.2	N/A	0.00	Carpet
STAIRS 1ST	TIMB-001: Suspended Timber Floor	6.6	N/A	0.00	Timber
STAIRS GRD	CSOG-100: Concrete Slab on Ground (100mm)	4.6	N/A	0.00	Timber
WC	TIMB-001: Suspended Timber Floor	1.4	N/A	0.00	Tile

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
BED 1	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
BED 1 ENS	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
KIT / LIV	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes



Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
STAIRS 1ST	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes
WC	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	4.00	Yes

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
BATHROOM GRD	1	Exhaust Fan	350	Sealed
BATHROOM GRD	1	Downlight	200	Sealed
BED 1	1	Downlight	200	Sealed
BED 1 ENS	1	Exhaust Fan	350	Sealed
BED 1 ENS	1	Downlight	200	Sealed
BED 2	2	Downlight	200	Sealed
BED 3	1	Downlight	200	Sealed
HALLWAY	1	Downlight	200	Sealed
KIT / LIV	1	Exhaust Fan	350	Sealed
KIT / LIV	4	Downlight	200	Sealed
LDRY	1	Exhaust Fan	250	Sealed
LDRY	1	Downlight	200	Sealed
POWDER	1	Exhaust Fan	350	Sealed
PROP SITTING	2	Downlight	200	Sealed
STAIRS 1ST	2	Downlight	200	Sealed
WC	1	Exhaust Fan	250	Sealed
WC	1	Downlight	200	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
BED 1	1	1200
BED 2	1	1200



Ceiling fans

Location	Quantity	Diameter (mm)
BED 3	1	1200
KIT / LIV	1	1500

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	1.30	0.50	Medium

Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions	Frame spacing	Steel thickness	Thermal Break
	(height x width, mm)	(mm)	(BMT mm)	(R-value)
None				



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

Glossary

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.

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.
COP	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 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 - suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category - protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
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.
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.
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 Smal 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)