Nationwide House Energy Rating Scheme
NatHERS Certificate No. #HR-P1RVZ5-01

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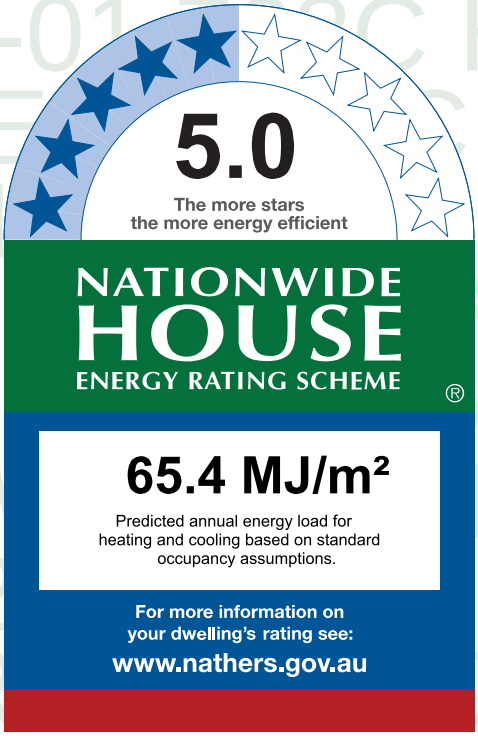

Property

Address	768C Henry Lawson Drive, Picnic Point, NSW, 2213
Lot/DP	
NCC Class*	1a
Type	New

Plans

Main Plan

Prepared by

Construction and environment

Assessed floor area (m²)*		**Exposure Type**
Conditioned*	436.2	Suburban
Unconditioned*	29.7	**NatHERS climate zone**
Total	465.8	56 - Mascot AMO
Garage	0.0	

Thermal Performance

Heating	**Cooling**
39.9	**25.4**
MJ/m²	MJ/m²

About the rating

NatHERS software models the expected thermal energy loads using information about the design and construction, climate and common patterns of household use. The software does not take into account appliances, apart from the airflow impacts from ceiling fans.

Accredited assessor

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Accreditation No.	DMN/12/1462
Assessor Accrediting Organisation	DMN
Declaration of interest	No Conflict of Interest

Verification

To verify this certificate, scan the QR code or visit http://www.hero-software.com.au/pdf/HR-P1RVZ5-01. When using either link, ensure you are visiting http://www.hero-software.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.

* Refer to glossary.

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?

Window and glazed door *type and performance*

Default* windows

Window ID	Window Description	Maximum U-value*	SHGC*	SHGC substitution tolerance ranges	
				lower limit	upper limit
CMP-006-02 I	Composite B DG Argon Fill Tint-Clear	3.9	0.40	0.38	0.42

Custom* windows

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

Window and glazed door *schedule*

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient-ation	Shading device*
Bath	CMP-006-02 I	W.16	600	3198	Fixed	0	N	None
Bed	CMP-006-02 I	W.04	2400	3100	Sliding	45	W	None

* Refer to glossary.

Window and glazed door *schedule*

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient-ation	Shading device*
Bed	CMP-006-02 I	W.19	1950	2100	Fixed	0	E	None
Bed	CMP-006-02 I	W.13	1000	3100	Sliding	30	N	None
Bed	CMP-006-02 I	W.15	600	4010	Fixed	0	N	None
Bed	CMP-006-02 I	W.12	1000	3100	Sliding	30	N	None
Bed	CMP-006-02 I	W.14	600	4450	Fixed	0	N	None
Bed Master	CMP-006-02 I	W.24	1000	3600	Sliding	30	W	None
Bed Master	CMP-006-02 I	W.25 - 1	400	6763	Fixed	0	W	None
Bed Master	CMP-006-02 I	W.22	400	6763	Fixed	0	E	None
Bed Master	CMP-006-02 I	W.23	2550	3600	Sliding	45	S	None
ENS	CMP-006-02 I	W.20	400	2100	Fixed	0	E	None
Kit	CMP-006-02 I	W.09	2400	4100	Sliding	45	W	None
Ldry	CMP-006-02 I	W.06	400	1480	Sliding	45	E	None
Ldry	CMP-006-02 I	W.05	400	1650	Sliding	45	E	None
Living	CMP-006-02 I	W.10	2400	3630	Sliding	45	S	None
Living	CMP-006-02 I	W.11	2400	3630	Sliding	45	S	None
Living	CMP-006-02 I	W.26	400	3600	Fixed	0	W	None
Living	CMP-006-02 I	W.27	2450	3780	Sliding	33	S	None
Living	CMP-006-02 I	W.29	2450	3780	Sliding	33	S	None
Living	CMP-006-02 I	W.01	600	5870	Sliding	30	W	None
Living	CMP-006-02 I	W.17	2700	1900	Casement	45	N	None
Living	CMP-006-02 I	W.31	600	4450	Sliding	30	N	None
Living	CMP-006-02 I	W.32	600	4010	Sliding	30	N	None
Living	CMP-006-02 I	W.33	600	5640	Sliding	30	N	None
Office	CMP-006-02 I	W.03	1500	3100	Sliding	30	N	None
Rumpus	CMP-006-02 I	W.08	1000	3600	Sliding	30	W	None
Rumpus	CMP-006-02 I	W.07	2550	3600	Sliding	45	S	None

* Refer to glossary.

Window and glazed door *schedule*

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient-ation	Shading device*
Theatre	CMP-006-02 I	W.02	2400	3100	Sliding	45	N	None
Living	CMP-006-02 I	W.18	3300	3240	Fixed	0	E	None
Living	CMP-006-02 I	W.30	600	3780	Sliding	30	S	None
Living	CMP-006-02 I	W.28	600	3780	Sliding	30	S	None
WIR	CMP-006-02 I	W.21	400	3780	Fixed	0	E	None
WIR	CMP-006-02 I	W25 - 2	400	6576	Fixed	0	W	None

Roof window *type and performance value*

Default* roof windows

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

Custom* roof windows

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

Roof window *schedule*

Location	Window ID	Window no.	Opening %	Height (mm)	Width (mm)	Orient-ation	Outdoor shade	Indoor shade
None								

Skylight *type and performance*

Skylight ID	Skylight description
None	

Skylight *schedule*

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m^2)	Orient-ation	Outdoor shade	Diffuser	Shaft Reflectance
None								

External door *schedule*

Location	Height (mm)	Width (mm)	Opening %	Orientation

* Refer to glossary.

External door *schedule*

Location	Height (mm)	Width (mm)	Opening %	Orientation
Ldry	2040	920	90	E

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	2.00	Yes
CAV-BRICK-110-110-PB	Cavity Brick Wall - 110mm/110mm Plasterboard Internally	0.50	Medium	2.00	No

External wall *schedule*

Location	Wall ID	Height (mm)	Width (mm)	Orient-ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Bath	CAV-BRICK-110-110-PB	2700	3498	E	1677	Yes
Bath	BV-REFL-CAV	2700	3198	N	1361	Yes
Bath	BV-REFL-CAV	2700	4202	E	3045	Yes
Bed	CAV-BRICK-110-110-PB	2700	5272	W		Yes
Bed	CAV-BRICK-110-110-PB	2700	4557	N		Yes
Bed	CAV-BRICK-110-110-PB	2700	5272	E	1677	Yes
Bed	BV-REFL-CAV	2700	3799	E	696	No
Bed	BV-REFL-CAV	2700	4396	N	1361	Yes
Bed	BV-REFL-CAV	2700	4466	W	650	No
Bed	BV-REFL-CAV	2700	4564	N	1361	Yes
Bed Master	BV-REFL-CAV	2700	6763	W	1027	Yes
Bed Master	BV-REFL-CAV	2700	6763	E	696	No
Bed Master	BV-REFL-CAV	2700	5547	S	2240	Yes
ENS	CAV-BRICK-110-110-PB	2700	1452	E	1677	Yes
ENS	BV-REFL-CAV	2700	2685	E	696	No
Hall	CAV-BRICK-110-110-PB	2700	3979	W	904	Yes
Kit	CAV-BRICK-110-110-PB	2700	6394	W	9057	Yes
Kit	CAV-BRICK-110-110-PB	2700	6394	E		No

* Refer to glossary.

External wall *schedule*

Location	Wall ID	Height (mm)	Width (mm)	Orient-ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Ldry	CAV-BRICK-110-110-PB	2700	3979	E		No
Living	CAV-BRICK-110-110-PB	2700	5538	E		No
Living	CAV-BRICK-110-110-PB	2700	7520	W		No
Living	CAV-BRICK-110-110-PB	2700	990	N		Yes
Living	CAV-BRICK-110-110-PB	2700	9054	S	5000	Yes
Living	BV-REFL-CAV	2700	3904	W	1027	Yes
Living	BV-REFL-CAV	3800	9129	S	850	Yes
Living	BV-REFL-CAV	3800	7001	W	650	No
Living	BV-REFL-CAV	3800	2029	E	696	No
Living	BV-REFL-CAV	3800	2349	N	7387	Yes
Living	BV-REFL-CAV	900	14528	N	514	No
Office	CAV-BRICK-110-110-PB	2700	3748	N	374	Yes
Rumpus	CAV-BRICK-110-110-PB	2700	6763	W	979	Yes
Rumpus	CAV-BRICK-110-110-PB	2700	6763	E		No
Rumpus	CAV-BRICK-110-110-PB	2700	5547	S	2221	Yes
Storage	CAV-BRICK-110-110-PB	2700	540	N	374	Yes
Storage	CAV-BRICK-110-110-PB	2700	700	E	1677	Yes
Theatre	CAV-BRICK-110-110-PB	2700	3983	W		No
Theatre	CAV-BRICK-110-110-PB	2700	4564	N	374	Yes
Living	BV-REFL-CAV	3800	3349	E	696	No
Living	BV-REFL-CAV	900	14690	S	510	No
Lift	BV-REFL-CAV	2700	1501	E	3045	Yes
WIR	BV-REFL-CAV	2700	3780	E	696	No
WIR	BV-REFL-CAV	2700	6576	W	1027	Yes

* Refer to glossary.

Internal wall *type*

Wall ID	Wall Type	Area (m^2)	Bulk insulation
INT-PB	Internal Plasterboard Stud Wall	130.0	0.00
SGL-BRICK-110-REND	Single 110mm Brick Wall - Rendered Both Sides	134.2	0.00

Floor *type*

Location	Construction	Area (m^2)	Sub-floor ventilation	Added insulation (R-value)	Covering
Bath	CSOG-150: Concrete Slab on Ground (150mm)	9.4	N/A	1.00	Tile (8mm)
Bath	SUSP-CONC-100-LINED: Suspended Concrete Slab Floor (100mm) - Lined Below	13.4	N/A	0.00	Tile (8mm)
Bed	CSOG-150: Concrete Slab on Ground (150mm)	24.0	N/A	1.00	Carpet
Bed	SUSP-CONC-100-LINED: Suspended Concrete Slab Floor (100mm) - Lined Below	56.5	N/A	0.00	Carpet
Bed Master	SUSP-CONC-100-LINED: Suspended Concrete Slab Floor (100mm) - Lined Below	37.5	N/A	0.00	Carpet
ENS	CSOG-150: Concrete Slab on Ground (150mm)	4.5	N/A	1.00	Tile (8mm)
ENS	SUSP-CONC-100-LINED: Suspended Concrete Slab Floor (100mm) - Lined Below	10.5	N/A	0.00	Tile (8mm)
Hall	CSOG-150: Concrete Slab on Ground (150mm)	10.7	N/A	1.00	Carpet
Kit	CSOG-150: Concrete Slab on Ground (150mm)	35.9	N/A	1.00	Tile (8mm)
Ldry	CSOG-150: Concrete Slab on Ground (150mm)	16.2	N/A	1.00	Tile (8mm)
Lift	CSOG-150: Concrete Slab on Ground (150mm)	2.0	N/A	1.00	Carpet
Living	CSOG-150: Concrete Slab on Ground (150mm)	102.1	N/A	1.00	Carpet
Living	SUSP-CONC-100-LINED: Suspended Concrete Slab Floor (100mm) - Lined Below	90.2	N/A	0.00	Carpet
Office	CSOG-150: Concrete Slab on Ground (150mm)	16.0	N/A	1.00	Carpet
Rumpus	CSOG-150: Concrete Slab on Ground (150mm)	37.5	N/A	1.00	Carpet
Storage	CSOG-150: Concrete Slab on Ground (150mm)	2.8	N/A	1.00	Carpet
Storage	SUSP-CONC-100-LINED: Suspended Concrete Slab Floor (100mm) - Lined Below	0.9	N/A	0.00	Carpet
Theatre	CSOG-150: Concrete Slab on Ground (150mm)	18.2	N/A	1.00	Carpet
WIR	SUSP-CONC-100-LINED: Suspended Concrete Slab Floor (100mm) - Lined Below	23.8	N/A	0.00	Carpet

* Refer to glossary.

Ceiling *type*

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
Bath	SLAB-150-CEIL-01: Concrete Slab (150mm) with Suspended PB Ceiling	4.00	No
Bath	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	No
Bed	SLAB-150-CEIL-01: Concrete Slab (150mm) with Suspended PB Ceiling	4.00	No
Bed	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	No
Bed Master	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	No
ENS	SLAB-150-CEIL-01: Concrete Slab (150mm) with Suspended PB Ceiling	4.00	No
ENS	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	No
Hall	SLAB-150-CEIL-01: Concrete Slab (150mm) with Suspended PB Ceiling	4.00	No
Living	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	No
Storage	SLAB-150-CEIL-01: Concrete Slab (150mm) with Suspended PB Ceiling	4.00	No
Storage	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	No
Lift	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	No
WIR	FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	4.00	No

Ceiling *penetrations**

Location	Quantity	Type	Diameter (mm)	Sealed /unsealed
Bath	3	Downlight	200	Sealed
Bed	11	Downlight	200	Sealed
Bed Master	5	Downlight	200	Sealed
ENS	2	Downlight	200	Sealed
Hall	2	Downlight	200	Sealed
Kit	1	Downlight	200	Sealed
Kit	1	Exhaust Fan	350	Sealed
Ldry	2	Downlight	200	Sealed
Lift	1	Downlight	200	Sealed
Living	15	Downlight	200	Sealed

* Refer to glossary.

Ceiling *penetrations**

Location	Quantity	Type	Diameter (mm)	Sealed /unsealed
Office	2	Downlight	200	Sealed
Rumpus	5	Downlight	200	Sealed
Storage	4	Downlight	200	Sealed
Theatre	3	Downlight	200	Sealed
Void	3	Downlight	200	Sealed
WIR	3	Downlight	200	Sealed

Ceiling *fans*

Location	Quantity	Diameter (mm)
None		

Roof *type*

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
FLAT-01: Flat Framed / Skillion Metal Roof & Flat PB Ceiling	0.00	0.30	Light
SLAB-150-CEIL-01: Concrete Slab (150mm) with Suspended PB Ceiling	0.15	0.50	Medium

* Refer to glossary.

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 NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor.

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, rangehoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure category - exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category - open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category - suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category - protected	terrain with numerous, closely spaced obstructions over 10 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.
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
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate airgap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes eaves.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).

* Refer to glossary.