

Nationwide House Energy Rating Scheme

NatHERS Certificate No. #HR-62T00M-01

Generated on 22 Dec 2021 using HERO v1.2-beta

Property

Address 1 Tasman Rd, Avalon Beach, NSW, 2107
Lot/DP Lot B/DP 102027
NCC Class* 1a
Type New

Plans

Main Plan Rev A 22.12.2021
Prepared by MCK Architecture + Interiors

Construction and environment

Assessed floor area (m²)*		Exposure Type
Conditioned*	287.6	Suburban
Unconditioned*	34.3	NatHERS climate zone
Total	376.5	56 - Mascot AMO
Garage	54.5	



Accredited assessor

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Accreditation No. 20570
Assessor Accrediting Organisation ABSA
Declaration of interest Conflict of Interest (Managed)

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.

5.2

The more stars
the more energy efficient

NATIONWIDE
HOUSE

ENERGY RATING SCHEME

62.1 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

Heating	Cooling
36.2	26.0
MJ/m ²	MJ/m ²

About the rating

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

Verification

To verify this certificate, scan the QR code or visit <http://www.hero-software.com.au/pdf/HR-62T00M-01>. When using either link, ensure you are visiting <http://www.hero-software.com.au>



* 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?

Apartment entrance doors

Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.

Exposure*

Has the appropriate exposure level (terrain) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".

Provisional* values

Have provisional values been used in the assessment and, if so, noted in "additional notes" below?

Additional Notes

The assessor has provided design advice to the client

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
ALM-005-03 A	Aluminium A DG Argon Fill High Solar Gain low-E -Clear	4.10	0.47	0.45	0.49
ATB-005-04 B	Al Thermally Broken A DG Argon Fill Low Solar Gain low-E -Clear	3.00	0.27	0.26	0.28
ATB-006-04 B	Al Thermally Broken B DG Argon Fill Low Solar Gain low-E -Clear	3.00	0.26	0.25	0.27

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*
Bedroom/ensuite	ATB-006-04 B	W12	3100	2377	Double Hung	45	E	None
Break_out_room	ATB-006-04 B	W01	2800	6240	Sliding	30	E	None
Ens_Master	ATB-006-04 B	W15	2376	3010	Sliding	45	S	None
Entry/hall2	ATB-006-04 B	W13	2810	600	Fixed	0	S	None
Entry/hall2	ALM-005-03 A	W10	2720	14364	Casement	40	N	None
Entry/hall2	ATB-005-04 B	W11	2720	1304	Pivot	90	E	None
Kitchen/Livi/dine/WC	ATB-006-04 B	W07	1570	6166	Fixed	0	N	None
Kitchen/Livi/dine/WC	ATB-006-04 B	W08	3100	4428	Sliding	30	E	None
Kitchen/Livi/dine/WC	ATB-006-04 B	W09	3100	1568	Fixed	0	E	None
Kitchen/Livi/dine/WC	ATB-006-04 B	W16	2344	796	Fixed	0	S	None
Kitchen/Livi/dine/WC	ATB-006-04 B	W17	1678	1795	Fixed	0	S	None
Kitchen/Livi/dine/WC	ATB-006-04 B	W18	300	5910	Fixed	0	S	None
Kitchen/Livi/dine/WC	ATB-006-04 B	W19	300	1545	Fixed	0	S	None
Kitchen/Livi/dine/WC	ATB-005-04 B	W05	3150	7506	French	90	W	None
Kitchen/Livi/dine/WC	ATB-006-04 B	W20	300	680	Fixed	0	W	None
Kitchen/Livi/dine/WC	ATB-005-04 B	W06	3100	6327	Casement	60	W	Fabric (SC 0.40)
Kitchen/Livi/dine/WC	ATB-006-04 B	W21	300	6155	Fixed	0	E	None
Master_Bedroom	ATB-006-04 B	W14	1200	4406	Sliding	45	S	None
bath	ATB-006-04 B	W04	1350	3920	Fixed	0	S	None
bunk_room	ATB-006-04 B	W02	2570	2992	Double Hung	45	N	None
laundry	ATB-006-04 B	W03	1350	4490	Fixed	0	S	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
DG-Generic-02 A	Clear AI DG DEFAULT ROOF WINDOW System 02	4.22	0.72	0.68	0.76

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)	Orientation	Outdoor shade	Indoor shade
Bedroom/ensuite	DG-Generic-02 A	SKYRW 05	0	1226	1231	N	External Louver (SC 0.30)	None
Ens_Master	DG-Generic-02 A	SKYRW 04	0	1219	1254	N	External Louver (SC 0.30)	None
Kitchen/Livi/dine /WC	DG-Generic-02 A	SKYRW 01	0	1252	3009	N	External Louver (SC 0.30)	None
Kitchen/Livi/dine /WC	DG-Generic-02 A	SKYRW 03	0	1171	1154	N	External Louver (SC 0.30)	None

Skylight type and performance

Skylight ID	Skylight description
None	

Skylight schedule

Location	Skylight ID	Skylight No.	Skylight shaft length (mm)	Area (m ²)	Orientation	Outdoor shade	Diffuser	Shaft Reflectance
None								

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
Entry/hall2	2800	1293	90	S
Garage	2800	6507	90	W
laundry	2800	870	90	W
plant_room	2000	981	90	N

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
CAV-BRICK-110-110-PB	CAV-BRICK-110-110-PB: Cavity Brick Wall - 110mm/110mm Plasterboard Internally	0.85	Dark	0.18	Yes
CONCBLOCK-190-FCF-PB	CONCBLOCK-190-FCF-PB: Concrete Block 190mm Fully Core-Filled - Plasterboard Internally	0.85	Dark	2.00	No

External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
CONCBLOCKCAV-90FCF-RFL-FCF-90FCF	CONCBLOCKCAV-90FCF-RFL-FCF-90FCF: Concrete Block 90mm Fully Core-Filled - 50mm reflective Cavity-Concrete Block 90mm Fully Core-Filled	0.85	Dark	0.64	Yes
MC-NONREFL-CAV1	MC-NONREFL-CAV1: Metal Clad Battened (Cavity) Stud Wall	0.85	Dark	2.50	No

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* projection (mm)	Vertical shading feature
Bedroom/ensuite	CAV-BRICK-110-110-PB	3120	3809	S	332	Yes
Bedroom/ensuite	CAV-BRICK-110-110-PB	3100	2157	W	1717	Yes
Bedroom/ensuite	CAV-BRICK-110-110-PB	3120	4646	E	1504	Yes
Break_out_room	CONCBLOCK-190-FCF-PB	2800	7703	E	3532	Yes
Break_out_room	CONCBLOCK-190-FCF-PB	1700	5034	N		Yes
Break_out_room	CONCBLOCK-190-FCF-PB	1100	5034	N		No
Ens_Master	CAV-BRICK-110-110-PB	2376	3036	S	290	Yes
Ens_Master	CONCBLOCK-190-FCF-PB	3100	13	W		Yes
Entry/hall2	CAV-BRICK-110-110-PB	3100	1998	S	2367	Yes
Entry/hall2	MC-NONREFL-CAV1	2720	15618	N		Yes
Entry/hall2	CAV-BRICK-110-110-PB	3120	1304	E	1504	Yes
Entry/hall2	CAV-BRICK-110-110-PB	3100	15	S		Yes
Garage	CONCBLOCK-190-FCF-PB	2800	28	E		Yes
Garage	CONCBLOCK-190-FCF-PB	2800	7493	W	1053	Yes
Garage	CONCBLOCK-190-FCF-PB	2800	650	N		Yes
Garage	CONCBLOCK-190-FCF-PB	2800	1135	W	854	Yes
Garage	CONCBLOCK-190-FCF-PB	1700	4431	N		Yes
Garage	CONCBLOCK-190-FCF-PB	1100	4431	N		No
Kitchen/Livi/dine/WC	CONCBLOCKCAV-90FCF-RFL-FCF-90FCF	3100	10345	N		Yes
Kitchen/Livi/dine/WC	CAV-BRICK-110-110-PB	3100	7328	E	3344	Yes

* Refer to glossary.

External wall *schedule*

Location	Wall ID	Height (mm)	Width (mm)	Orient-ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Kitchen/Livi/dine/WC	CAV-BRICK-110-110-PB	3100	9323	S	296	Yes
Kitchen/Livi/dine/WC	CAV-BRICK-110-110-PB	3150	8159	W	2230	Yes
Kitchen/Livi/dine/WC	MC-NONREFL-CAV1	3100	1845	S	7077	Yes
Kitchen/Livi/dine/WC	MC-NONREFL-CAV1	3200	6375	W	409	Yes
Kitchen/Livi/dine/WC	MC-NONREFL-CAV1	2320	6161	E		Yes
Master_Bedroom	CAV-BRICK-110-110-PB	2400	5638	S	301	Yes
Master_Bedroom	CAV-BRICK-110-110-PB	3100	2151	E	1696	Yes
bath	CONCBLOCK-190-FCF-PB	1350	3924	S	1459	Yes
bath	CONCBLOCK-190-FCF-PB	1450	3924	S		No
bunk_room	CONCBLOCK-190-FCF-PB	2800	3241	N	170	Yes
bunk_room	CONCBLOCK-190-FCF-PB	2800	19	E		Yes
bunk_room	CONCBLOCK-190-FCF-PB	1500	4221	S		Yes
bunk_room	CONCBLOCK-190-FCF-PB	2800	1301	W		Yes
bunk_room	CONCBLOCK-190-FCF-PB	2800	11	E		Yes
bunk_room	CONCBLOCK-190-FCF-PB	800	5456	E		No
bunk_room	CONCBLOCK-190-FCF-PB	1300	4221	S		No
laundry	CONCBLOCK-190-FCF-PB	1350	5186	S	1477	Yes
laundry	CONCBLOCK-190-FCF-PB	2800	4440	W	1060	Yes
laundry	CONCBLOCK-190-FCF-PB	1450	5186	S		No
plant_room	CONCBLOCK-190-FCF-PB	650	2393	S		Yes
plant_room	CONCBLOCK-190-FCF-PB	2000	2404	N	242	Yes
plant_room	CONCBLOCK-190-FCF-PB	1100	2393	S		No
plant_room	CONCBLOCK-190-FCF-PB	1030	5447	E		No

Internal wall *type*

Wall ID	Wall Type	Area (m ²)	Bulk insulation
INT-PB	Internal Plasterboard Stud Wall	105.7	0.00

Internal wall type

Wall ID	Wall Type	Area (m ²)	Bulk insulation
INT-PB	Internal Plasterboard Stud Wall	46.6	2.00

Floor type

Location	Construction	Area (m ²)	Sub-floor ventilation	Added insulation (R-value)	Covering
Bedroom/ensuite	SUSP-CONC-150: Suspended Concrete Slab Floor (150mm)	4.6	Enclosed (Disc.)	1.00	Tile
Bedroom/ensuite	SUSP-CONC-150: Suspended Concrete Slab Floor (150mm)	14.4	Enclosed (Disc.)	1.00	Carpet
Break_out_room	CSOG-150: Concrete Slab on Ground (150mm)	46.5	N/A	0.00	Stone
Ens_Master	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	9.0	N/A	0.00	Tile
Ens_Master	SUSP-CONC-150-LINED: Suspended Concrete Slab Floor (150mm) - Lined Below	0.6	N/A	2.50	Tile
Entry/hall2	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	5.6	N/A	0.00	Stone
Entry/hall2	SUSP-CONC-150: Suspended Concrete Slab Floor (150mm)	19.7	Enclosed (Disc.)	1.00	Stone
Garage	CSOG-150: Concrete Slab on Ground (150mm)	41.5	N/A	0.00	Stone
Kitchen/Livi/dine/WC	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	124.7	N/A	0.00	Stone
Kitchen/Livi/dine/WC	SUSP-CONC-150-LINED: Suspended Concrete Slab Floor (150mm) - Lined Below	14.0	N/A	2.50	Stone
Kitchen/Livi/dine/WC	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	4.1	N/A	0.00	Tile
Master_Bedroom	SUSP-CONC-100: Suspended Concrete Slab Floor (100mm)	11.8	N/A	0.00	Carpet
Master_Bedroom	SUSP-CONC-150: Suspended Concrete Slab Floor (150mm)	14.3	Enclosed (Disc.)	1.00	Carpet
bath	CSOG-150: Concrete Slab on Ground (150mm)	10.6	N/A	0.00	Stone
bunk_room	CSOG-150: Concrete Slab on Ground (150mm)	21.8	N/A	0.00	Stone
laundry	CSOG-150: Concrete Slab on Ground (150mm)	23.7	N/A	0.00	Stone
plant_room	CSOG-150: Concrete Slab on Ground (150mm)	13.1	N/A	0.00	Stone

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
Bedroom/ensuite	FLAT-01: Flat Framed / Skillion Metal Roof + Flat Ceiling	4.00	No
Ens_Master	FLAT-01: Flat Framed / Skillion Metal Roof + Flat Ceiling	4.00	No
Entry/hall2	FLAT-01: Flat Framed / Skillion Metal Roof + Flat Ceiling	4.00	No

* Refer to glossary.

Garage	FLAT-01: Flat Framed / Skillion Metal Roof + Flat Ceiling	4.00	No
Kitchen/Livi/dine/WC	SLAB-100-EXP-01: Concrete Slab (100mm) with Exposed Concrete Ceiling	0.00	No
Master_Bedroom	FLAT-01: Flat Framed / Skillion Metal Roof + Flat Ceiling	4.00	No
laundry	FLAT-01: Flat Framed / Skillion Metal Roof + Flat Ceiling	4.00	No

Ceiling penetrations*

Location	Quantity	Type	Diameter (mm)	Sealed /unsealed
Bedroom/ensuite	3	Downlight	200	Sealed
Bedroom/ensuite	1	Exhaust Fan	350	Sealed
Break_out_room	7	Downlight	200	Sealed
Ens_Master	2	Downlight	200	Sealed
Ens_Master	1	Exhaust Fan	350	Sealed
Entry/hall2	4	Downlight	200	Sealed
Garage	6	Downlight	200	Sealed
Kitchen/Livi/dine/WC	21	Downlight	200	Sealed
Kitchen/Livi/dine/WC	2	Exhaust Fan	350	Sealed
Master_Bedroom	4	Downlight	200	Sealed
bath	2	Downlight	200	Sealed
bath	1	Exhaust Fan	350	Sealed
bunk_room	4	Downlight	200	Sealed
laundry	4	Downlight	200	Sealed
plant_room	2	Downlight	200	Sealed

Ceiling fans

Location	Quantity	Diameter (mm)
Bedroom/ensuite	1	1200
Break_out_room	1	1200
Kitchen/Livi/dine/WC	1	1200
Master_Bedroom	1	1200

* Refer to glossary.



Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
FLAT-01: Flat Framed / Skillion Metal Roof + Flat Ceiling	0.00	0.85	Dark
SLAB-100-EXP-01: Concrete Slab (100mm) with Exposed Concrete Ceiling	3.57	0.85	Dark

Explanatory Notes

About this report

A NatHERS rating is a comprehensive, dynamic computer modelling evaluation of a home, using the floorplans, elevations and specifications to estimate an energy load. It addresses the building layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings), but does not cover the water or energy use of appliances or energy production of solar panels.

Ratings are based on a unique climate zone where the home is located and are generated using standard assumptions, including occupancy patterns and thermostat settings. The actual energy consumption of a home may vary significantly from the predicted energy load, as the assumptions used in the rating will not match actual usage patterns. For example, the number of occupants and personal heating or cooling preferences will vary.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparing different dwelling designs and to demonstrate that the design meets the energy efficiency requirements in the National Construction Code. Homes that are energy efficient use less energy, are warmer on cool days, cooler on hot days and cost less to run. The higher the star rating the more thermally efficient the dwelling is.

Accredited assessors

To ensure the NatHERS Certificate is of a high quality, always use an accredited or licenced assessor. NatHERS accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

Australian Capital Territory (ACT) licensed assessors may only produce assessments for regulatory purposes using software for which they have a licence endorsement. Licence endorsements can be confirmed on the ACT licensing register

AAOs have specific quality assurance processes in place, and continuing professional development requirements, to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any ongoing training requirements.

Any questions or concerns about this report should be directed to the assessor in the first instance. If the assessor is unable to address these questions or concerns, the AAO specified on the front of this certificate should be contacted.

Disclaimer

The format of the NatHERS Certificate was developed by the NatHERS Administrator. However the content of each individual certificate is entered and created by the assessor to create a NatHERS Certificate. It is the responsibility of the assessor who prepared this certificate to use NatHERS accredited software correctly and follow the NatHERS Technical Notes to produce a NatHERS Certificate.

The predicted annual energy load in this NatHERS Certificate is an estimate based on an assessment of the building by the assessor. It is not a prediction of actual energy use, but may be used to compare how other buildings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, indoor air temperature and local climate.

Not all assumptions that may have been made by the assessor while using the 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).