Nationwide House Energy Rating Scheme NatHERS Certificate No. 0007798358-01

Generated on 23 Sep 2022 using BERS Pro v4.4.1.5 (3.21)

Property

Address 7 Sheffield Street , Kingsgrove , NSW ,

2208

Lot/DP 4/15740

NCC Class* 1A

Type New Dwelling

Plans

Main Plan 208654

Prepared by NK

Construction and environment

Assessed floor are	ea (m²)*	Exposure Type
Conditioned*	244.0	Suburban
Unconditioned*	48.0	NatHERS climate zone
Total	292.0	56
Garage	30.0	



Name lan Fry

Business name Frys Energywise

Email comply@frysenergywise.com.au

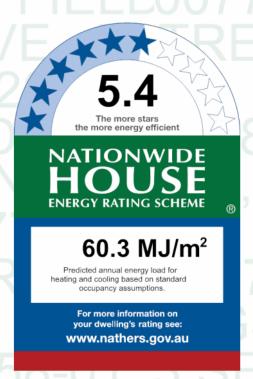
 Phone
 02 9899 2825

 Accreditation No.
 DMN/12/1441

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration completed: no conflicts



Thermal performance

Heating Cooling 34.6 25.8 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.

Verification

To verify this certificate, scan the QR code or visit



hstar.com.au/QR/Generate? p=IOhTrxwBJ.

p=IOhTrxwBJ.

When using either link, ensure you are visiting hstar.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.



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?

Additional notes

Where not noted on plans, default selections to floor coverings and external colours have been used in this

assessment, as noted in the NatHERS Technical Notes. Alternative selections past this point can be made to floor

coverings and external colours, without requiring an amended certificate.

I have modeled the shading in accordance with NatHERS principles

Window and glazed door type and performance

Default* windows

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
WINGOW ID	Description	U-value*		SHGC lower limit	SHGC upper limit	
TIM-001-01 W	TIM-001-01 W Timber A SG Clear	5.4	0.56	0.53	0.59	

Custom* windows

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
WITIGOW ID	Description	on U-value*		SHGC lower limit	SHGC upper limit	
TND-002-08 A	TND-002-08 A Trend Al Awning Window SG 638CP	4.9	0.41	0.39	0.43	
TND-002-01 A	TND-002-01 A Trend Al Awning Window SG 3Clr	6.5	0.66	0.63	0.69	
TND-071-01 A	TND-071-01 A Windsor Sliding Door SG 6Clr	6.1	0.65	0.62	0.68	

* Refer to glossary.

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5.4 Star Rating as of 23 Sep 2022



Custom* windows

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
WITIGOW ID	Description	U-value*	энвс	SHGC lower limit	SHGC upper limit	
TND-001-08 A	TND-001-08 A Trend Al Sliding Window SG 6.38CP	4.6	0.44	0.42	0.46	
TND-024-01 A	TND-024-01 A Trend Al Internal offset glazed window SG 5CIr	6.1	0.75	0.71	0.79	
TND-071-11 A	TND-071-11 A Windsor Sliding Door SG 638CPClr	4.4	0.54	0.51	0.57	
TND-024-04 A	TND-024-04 A Trend Al Internal offset glazed window SG 6.38CP	4.1	0.46	0.44	0.48	
TND-001-01 A	TND-001-01 A Trend Al Sliding Window SG 3Clr	6.4	0.73	0.69	0.77	

Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orientation	Window shading device*
GUEST	TND-002-08 A	n/a	2035	2290	n/a	64	E	No
POWDER	TND-002-01 A	n/a	1030	850	n/a	90	S	No
ENTRY HALL	TIM-001-01 W	n/a	2340	1290	n/a	90	E	No
LAUNDRY	TND-071-01 A	n/a	2140	1570	n/a	45	N	No
SUNKEN LOUNGE H	TND-001-08 A	n/a	600	3010	n/a	45	N	No
BUTLERS PANTRY	TND-024-01 A	n/a	700	1450	n/a	00	S	No
KITCHEN DINING	TND-001-08 A	n/a	2035	2650	n/a	30	S	No
KITCHEN DINING	TND-071-11 A	n/a	2340	3370	n/a	63	W	No
KITCHEN DINING	TND-001-08 A	n/a	2035	2650	n/a	30	S	No
KITCHEN DINING	TND-001-08 A	n/a	1200	3010	n/a	45	W	No
BED 2	TND-024-04 A	n/a	1245	910	n/a	00	S	No
BED 2	TND-024-04 A	n/a	1245	910	n/a	00	N	No
BED 2	TND-002-08 A	n/a	1245	3270	n/a	10	E	No
ENSUITE 1	TND-024-01 A	n/a	2035	350	n/a	00	S	No
ENSUITE 1	TND-001-01 A	n/a	1030	850	n/a	45	S	No
MASTER SUITE	TND-001-01 A	n/a	1030	850	n/a	10	S	No
MASTER SUITE	TND-001-01 A	n/a	600	2410	n/a	10	W	No
BED 4	TND-001-01 A	n/a	600	2410	n/a	10	W	No
UF BATH	TND-001-01 A	n/a	300	850	n/a	10	N	No
BED 3	TND-001-01 A	n/a	600	2410	n/a	10	N	No
UPPER LOUNGE GA	TND-002-08 A	n/a	1200	2650	n/a	55	N	No
UPPER LOUNGE GA	TND-002-08 A	n/a	1245	2650	n/a	66	E	No
UPPER LOUNGE GA	TND-024-04 A	n/a	1245	890	n/a	00	E	No



Roof window type and performance

Default* roof windows

Window ID Window Description Maximum U-value* SHGC* Substitution tolerance ranges

SHGC lower limit SHGC upper limit

No Data Available

Custom* roof windows

Window ID Window Description Maximum U-value* SHGC* Substitution tolerance ranges

SHGC lower limit SHGC upper limit

No Data Available

Roof window schedule

Window Window Height **Outdoor** Indoor **Opening** Width Location Orientation ID no. % (mm) (mm) shade shade

No Data Available

Skylight type and performance

Skylight ID Skylight description

No Data Available

Skylight schedule

Skylight Skylight Skylight Outdoor Skylight shaft **Area** Diffuser Location shaft length Orientation ID No. (m²)shade reflectance (mm) No Data Available

External door schedule

Location	Height (mm)	Width (mm)	Opening %	Orientation
GARAGE	2143	4770	90	E

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade (colour)	Bulk insulation (R-value)	Reflective wall wrap*
EW-1	Brick Veneer	0.85	Dark	Bulk Insulation R2	No
EW-2	Brick Veneer	0.85	Dark	No insulation	No
EW-3	Single Skin Brick	0.85	Dark	No insulation	No



External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
GUEST	EW-1	2740	3695	S	100	NO
GUEST	EW-1	2740	1500	N	1900	YES
GUEST	EW-1	2740	3300	E	100	NO
POWDER	EW-1	2740	2790	S	100	YES
ENTRY HALL	EW-1	2740	1790	E	1900	YES
LAUNDRY	EW-1	2740	1890	N	100	YES
SUNKEN LOUNGE H	EW-1	2910	4490	N	100	NO
BUTLERS PANTRY	EW-1	2740	600	Е	100	YES
BUTLERS PANTRY	EW-1	2740	2395	S	100	NO
KITCHEN DINING	EW-1	2740	3695	S	100	NO
KITCHEN DINING	EW-1	2740	600	W	100	YES
KITCHEN DINING	EW-1	2740	4000	S	100	YES
KITCHEN DINING	EW-1	2740	4000	W	4400	YES
KITCHEN DINING	EW-1	2740	3800	S	4600	YES
KITCHEN DINING	EW-1	2740	5300	W	600	NO
KITCHEN DINING	EW-1	2740	3600	N	600	NO
KITCHEN DINING	EW-1	2740	700	E	100	YES
KITCHEN DINING	EW-1	2740	3395	N	100	YES
GARAGE	EW-2	2910	2000	W	100	YES
GARAGE	EW-2	2910	5500	N	100	NO
GARAGE	EW-3	2910	5495	Е	100	NO
BED 2	EW-1	2440	4395	S	600	NO
BED 2	EW-1	2440	1500	N	600	YES
BED 2	EW-1	2440	3300	Е	600	NO
BED 2 WIR	EW-1	2440	2090	S	600	YES
ENSUITE 1	EW-1	2440	600	Е	7100	YES
ENSUITE 1	EW-1	2440	3295	S	600	NO
HIS HERS	EW-1	2440	2795	S	600	NO
HIS HERS	EW-1	2440	600	W	4600	YES
MASTER SUITE	EW-1	2440	3995	S	600	YES
MASTER SUITE	EW-1	2440	4795	W	600	NO
BED 4	EW-1	2440	3795	W	600	NO
BED 4	EW-1	2440	3995	N	600	NO
UF BATH	EW-1	2440	2690	N	600	NO
BED 3	EW-1	2440	3890	N	600	NO
UPPER LOUNGE GA	EW-1	2440	3895	N	600	NO
UPPER LOUNGE GA	EW-1	2440	3700	E	600	YES



Location	Wall ID	Height (mm)	Width (mm)	Orientation	Horizontal shading feature* maximum projection (mm)	Vertical shading feature (yes/no)
UPPER LOUNGE GA	EW-1	2440	600	N	4300	YES
UPPER LOUNGE GA	EW-1	2440	1595	E	600	YES

Internal wall type

Wall ID	Wall type	Area (m²)	Bulk insulation
IW-1 - Cavity wall, direct fix plasterboard, single gap		214.00	No insulation
IW-2 - Cavity wall, direct fix plasterboard, single gap		25.00	Bulk Insulation, No Air Gap R2

Floor type

Location	Construction	Area Sub-floor (m²) ventilatio	Added insulation (R-value)	Covering
GUEST	Waffle pod slab 300 mm 100mm	12.00 None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
POWDER	Waffle pod slab 300 mm 100mm	5.00 None	Waffle Pod 300mm	Ceramic Tiles 8mm
ENTRY HALL	Waffle pod slab 300 mm 100mm	22.50 None	Waffle Pod 300mm	20/80 Carpet 10mm/Ceramic
LAUNDRY	Waffle pod slab 300 mm 100mm	4.30 None	Waffle Pod 300mm	Ceramic Tiles 8mm
SUNKEN LOUNGE H	Waffle pod slab 300 mm 100mm	16.10 None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
BUTLERS PANTRY	Waffle pod slab 300 mm 100mm	5.90 None	Waffle Pod 300mm	Ceramic Tiles 8mm
KITCHEN DINING	Waffle pod slab 300 mm 100mm	70.10 None	Waffle Pod 300mm	Ceramic Tiles 8mm
GARAGE	Waffle pod slab 225 mm 100mm	29.80 None	Waffle Pod 225mm	Bare
BED 2/GUEST	Timber Above Plasterboard 19mm	12.00	No Insulation	Carpet+Rubber Underlay 18mm
BED 2/POWDER	Timber Above Plasterboard 19mm	1.20	No Insulation	Carpet+Rubber Underlay 18mm
BED 2/ENTRY HALL	Timber Above Plasterboard 19mm	1.00	No Insulation	Carpet+Rubber Underlay 18mm
BED 2 WIR/POWDER	Timber Above Plasterboard 19mm	3.80	No Insulation	Carpet+Rubber Underlay 18mm
WIL/ENTRY HALL	Timber Above Plasterboard 19mm	1.10	No Insulation	Carpet+Rubber Underlay 18mm
ENSUITE 1/BUTLERS PANTRY	Timber Above Plasterboard 19mm	6.00	No Insulation	Ceramic Tiles 8mm
ENSUITE 1/KITCHEN DINING	Timber Above Plasterboard 19mm	2.20	No Insulation	Ceramic Tiles 8mm
HIS HERS/KITCHEN DINING	Timber Above Plasterboard 19mm	11.20	No Insulation	Carpet+Rubber Underlay 18mm
MASTER SUITE/KITCHEN DINING	Timber Above Plasterboard 19mm	18.80	No Insulation	Carpet+Rubber Underlay 18mm
BED 4/SUNKEN LOUNGE H	Timber Above Plasterboard 19mm	2.90	No Insulation	Carpet+Rubber Underlay 18mm
BED 4/KITCHEN DINING	Timber Above Plasterboard 19mm	12.00	No Insulation	Carpet+Rubber Underlay 18mm
UF BATH/SUNKEN LOUNGE H	Timber Above Plasterboard 19mm	8.40	No Insulation	Ceramic Tiles 8mm
BED 3/ENTRY HALL	Timber Above Plasterboard 19mm	1.60	No Insulation	Carpet+Rubber Underlay 18mm



Location	Construction	Area Sub-floor (m) ventilation	Added insulation (R-value)	Covering
BED 3/LAUNDRY	Timber Above Plasterboard 19mm	4.40	No Insulation	Carpet+Rubber Underlay 18mm
BED 3/SUNKEN LOUNGE H	Timber Above Plasterboard 19mm	3.20	No Insulation	Carpet+Rubber Underlay 18mm
BED 3/GARAGE	Timber Above Plasterboard 19mm	3.20	No Insulation	Carpet+Rubber Underlay 18mm
UPPER LOUNGE GA/ENTRY HALL	Timber Above Plasterboard 19mm	18.60	No Insulation	Carpet+Rubber Underlay 18mm
UPPER LOUNGE GA/SUNKEN LOUNGE H	Timber Above Plasterboard 19mm	1.50	No Insulation	Carpet+Rubber Underlay 18mm
UPPER LOUNGE GA/KITCHEN DINING	Timber Above Plasterboard 19mm	4.70	No Insulation	Carpet+Rubber Underlay 18mm
UPPER LOUNGE GA/GARAGE	Timber Above Plasterboard 19mm	13.40	No Insulation	Carpet+Rubber Underlay 18mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap*
GUEST	Timber Above Plasterboard	No Insulation	No
POWDER	Timber Above Plasterboard	No Insulation	No
ENTRY HALL	Timber Above Plasterboard	No Insulation	No
LAUNDRY	Timber Above Plasterboard	No Insulation	No
SUNKEN LOUNGE H	Timber Above Plasterboard	No Insulation	No
BUTLERS PANTRY	Timber Above Plasterboard	No Insulation	No
KITCHEN DINING	Plasterboard	Bulk Insulation R3.5	No
KITCHEN DINING	Timber Above Plasterboard	No Insulation	No
GARAGE	Plasterboard	No insulation	No
GARAGE	Timber Above Plasterboard	No Insulation	No
BED 2	Plasterboard	Bulk Insulation R3.5	No
BED 2 WIR	Plasterboard	Bulk Insulation R3.5	No
WIL	Plasterboard	Bulk Insulation R3.5	No
ENSUITE 1	Plasterboard	Bulk Insulation R3.5	No
HIS HERS	Plasterboard	Bulk Insulation R3.5	No
MASTER SUITE	Plasterboard	Bulk Insulation R3.5	No
BED 4	Plasterboard	Bulk Insulation R3.5	No
UF BATH	Plasterboard	Bulk Insulation R3.5	No
BED 3	Plasterboard	Bulk Insulation R3.5	No
UPPER LOUNGE GA	Plasterboard	Bulk Insulation R3.5	No

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm²)	Sealed/unsealed
POWDER	1	Exhaust Fans	300	Sealed
ENSUITE 1	1	Exhaust Fans	300	Sealed

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5.4 Star Rating as of 23 Sep 2022



Location	Quantity	Туре	Diameter (mm)	Sealed/unsealed
UF BATH	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
Roof Tiles	Foil, Gap Above, Reflective Side Down, Anti-glare Up	0.85	Dark
Corrugated Iron	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.73	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 NatHES 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 Nath—RS 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, chirmeys 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	
Conditioned	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).	
E	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered	
Exposure category – open	sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).	
Exposure category – suburban	terrain with numerous, closely spaced obstructions below 10me.g. suburban housing, heavily vegetated bushland areas.	
Exposure category – protected	terrain with numerous, closely spaced obstructions over 10 me.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	the NCC groups buildings by their function and use, and assigns a classification code. NatHEPS software models NCC Class 1, 2 or 4	
(NOC) Class	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.	
	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional	
Provisional value	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).	
	Colora, Caro, Walle in the Sellining (Willig Walley), Fortices, Other Sellinings, Vogetation (protected or linear hallenge trees).	