Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011766193

Generated on 06 Mar 2025 using BERS Pro v5.2.4 (3.23)

Property

Address Unit 120B, 120A Marco Avenue,

PANANIA, NSW, 2213

Lot 2 DP 612941

NCC class* 1a

Floor/all Floors G of 3 floors

Type New Home

Plans

Main plan n/a Prepared by n/a

Construction and environment

Assessed floor area [m2]*

Conditioned* 290.6 Unconditioned* 15.5

Total 345.3

Garage 39.2

Exposure type

Suburban

NatHERS climate zone

56 Mascot (Sydney Airport)



Accredited assessor

Name Zoran Cvetkovski

Business name Sustainability- Z

Email sustainability-z@outlook.com

 Phone
 0414273176

 Accreditation No.
 DMN/13/1641

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration not completed

NCC Requirements

NCC provisions Volume Two

Strate/Territory variation Yes

National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

Thermal performance Star rating

7.0
The more stars the more energy efficient

NATIONWIDE HOUSE ENERGY RATING SCHEME

29.8 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

Modelled 13.7 16.2 Load limits N/A N/A

Features determining load limits

Floor Type
(lowest conditioned area)

NCC climate zone 1 or 2

Outdoor living area

Outdoor living area ceiling fan

No

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate? p=DBgYPqLAS. When using either link, ensure you are visiting hstar.com.au





About the ratings

Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

Predicted Whole of Home annual impact by appliance

Energy use

Greenhouse gas emissions

No Whole
of Home
performance
assessment
conducted for this
certificate

No Whole of Home

performance

assessment conducted for this

certificate

Heating & Cooling Load Limits

Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the ABCB Standard 2022: NatHERS heating and cooling load limits for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

Setting Options:

Floor Type:

CSOG - Concrete Slab on Ground

SF - Suspended Floor (or a mixture of CSOG and SF)

NA – Not Applicable

NCC Climate Zone 1 or 2:

Yes

No

NA - Not Applicable

Outdoor Living Area:

Yes

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.

7 Star Rating as of 06 Mar 2025

A	*	•	
NA H	O	U.	SÉ

Certificate check	Approval Stage				
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Asses	Conse	Builde	Conse	Occup
Genuine certificate check			'		
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check		1			
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?					
Floor					
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Floor type' table on this certificate?					
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate?					
Roof					
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor highrise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown					

7 Star Rating as of 06 Mar 202	7	Star	Rating	as	of	06	Mar	202
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A	*	•	
NA H	O	U.	SÉ

	Approva	l Stage	Construction Stage	ction	
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not included)	ıded in tl	he NatHE	RS asse	ssment)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
Has the insulation been installed according to the NCC requirements?					
Building sealing					
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Hom	e performa	ance asses	ssment is r	not conduc	eted)
Appliances					
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?					
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?					
Additional NCC Requirements for Services (not included in the	NatHERS	assessi	nent)		
Does the lighting meet the artificial lighting requirements specified in the NCC?					
Does the hot water system meet the additional requirements specified in the NCC?					
Provisional values* check					
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?					
Other NCC requirements					
Note: This Certificate only covers the energy efficiency requirements in the NCC. Addi but are not limited to: condensation, structural and fire safety requirements and any st requirements.					
Additional notes					
Rated with provisional values for downlights (0mm).					
Rated with exhaust fans (350mm).					
Rated with ceiling fans troughout (1200mm) as shown on the plans.					



Rated with raft slab.

Rated with concrete construction in the basement (internal concrete walls).

Rated with brick veneer construction on the ground and first floor. (internal stud walls and internal concrete floors).

Rated with floor coverings as per the technical documentation.

Rated with AWS windows.

Rated with window sizes and types as per the window schedule.

All coffer ceiling verticals and walls against the roof-space, to be insulated, with the same

insulation as the ceiling insulation.

Where the roof is extended over an open area such as a deck or carport: A barrier to be installed

within the roof space to separate the space above the zoned part of the house and the space above

the open veranda.

Room schedule

Room	Zone Type	Area [m²]
Storage-BSMT	Daytime	42.8
Stairs/Hwy-BSMT	Daytime	18.28
Lift-BSMT	Daytime	3.62
Storage-BSMT	Daytime	26.89
Lounge-GF	Living	27.1
Garage-GF	Garage	39.21
Ktch/Din-GF	Kitchen/Living	55.26
Pantry-GF	Daytime	9.74
Laundry-GF	Unconditioned	4.51
Powder-GF	Unconditioned	3
Bedroom 1-GF	Bedroom	13.91
Lift-GF	Daytime	4.11
WIR/Bed 1-FF	Nighttime	5.93
Ens/Bed 1-FF	Nighttime	5.72
Lift-FF	Daytime	4.17
Stairs-FF	Daytime	22.94
Void/Lounge-FF	Unconditioned	25.79
Bedroom 2-FF	Bedroom	13.95
Ens/Bed 2-FF	Nighttime	3.88

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Room	Zone Type	Area [m²]
WIR/Bed 2-FF	Nighttime	4.25
Bedroom 3-FF	Bedroom	16.85
WIR/Bed 3-FF	Nighttime	6.19
Bedroom 4-FF	Bedroom	14.75
WIR/Bed 4-FF	Nighttime	4.16
Bedroom 5-FF	Bedroom	20.81
He-WIR/Bed 5-FF	Nighttime	5.13
Ens/Bed 5-FF	Nighttime	5.66
Ens/Bed 5-FF	Nighttime	1.74
Bath-FF	Unconditioned	7.96
She-WIR/Bed5-FF	Nighttime	5.85
Storage-BSMT	Daytime	36.1
Hwy-FF	Daytime	6.65

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
Window ID	Description	U-value*	эпис"	SHGC lower limit	SHGC upper limit
No Data Availa	able				

Custom windows*

Window	Maximum	CUCC*	Substitution tolerance ranges			
Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit		
Aluminium Awning Window DG AGG MAX Clr 6/10/4	3.4	0.22	0.21	0.23		
Aluminium Bifold Door DG AGG MAX Clr 6/10/4	3.5	0.21	0.20	0.22		
Aluminium Fixed Window SG 5Clr	5.9	0.75	0.71	0.79		
Aluminium Sliding Window SG 6.38CPNtl	4.6	0.45	0.43	0.47		
Aluminium Sliding Door SG 6.38CPNtl	4.4	0.45	0.42	0.47		
Aluminium Awning Window SG 6.38CPNtl	4.9	0.41	0.39	0.43		
Aluminium Fixed Window DG 4LoE366/12Ar/4Clr	2.1	0.25	0.24	0.27		
	Description Aluminium Awning Window DG AGG MAX Clr 6/10/4 Aluminium Bifold Door DG AGG MAX Clr 6/10/4 Aluminium Fixed Window SG 5Clr Aluminium Sliding Window SG 6.38CPNtl Aluminium Sliding Door SG 6.38CPNtl Aluminium Awning Window SG 6.38CPNtl Aluminium Fixed Window DG	Description Aluminium Awning Window DG AGG MAX Clr 6/10/4 Aluminium Bifold Door DG AGG MAX Clr 6/10/4 Aluminium Fixed Window SG 5Clr Aluminium Sliding Window SG 6.38CPNtl Aluminium Sliding Door SG 6.38CPNtl Aluminium Awning Window SG 6.38CPNtl Aluminium Fixed Window DG 2.1	Aluminium Awning Window DG AGG MAX Clr 6/10/4 Aluminium Bifold Door DG AGG MAX Clr 6/10/4 Aluminium Fixed Window SG 5Clr Aluminium Sliding Window SG 6.38CPNtl Aluminium Sliding Door SG 6.38CPNtl Aluminium Awning Window SG 6.38CPNtl Aluminium Awning Window SG 6.38CPNtl Aluminium Fixed Window DG Aluminium Fixed Window DG Aluminium Fixed Window DG Aluminium Fixed Window DG	Description U-value* SHGC* SHGC lower limit Aluminium Awning Window DG AGG MAX Clr 6/10/4 3.4 0.22 0.21 Aluminium Bifold Door DG AGG MAX Clr 6/10/4 3.5 0.21 0.20 Aluminium Fixed Window SG 5Clr 5.9 0.75 0.71 Aluminium Sliding Window SG 6.38CPNtl 4.6 0.45 0.43 Aluminium Sliding Door SG 6.38CPNtl 4.4 0.45 0.42 Aluminium Awning Window SG 6.38CPNtl 4.9 0.41 0.39 Aluminium Fixed Window DG 2.1 0.25 0.24		



Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Lounge-GF	AWS-008-064-001	W12	2100	610	Awning	70	W	No
Lounge-GF	AWS-008-064-001	W13	2100	610	Awning	70	W	No
Lounge-GF	AWS-008-064-001	W1	2100	850	Awning	60	N	Yes
Lounge-GF	AWS-008-064-001	W2	2100	850	Awning	60	N	Yes
Lounge-GF	AWS-017-061-001	BF09	2400	3610	Bifold	90	Е	No
Garage-GF	AWS-066-007-001	W9	600	2410	Fixed	00	W	No
Garage-GF	AWS-066-007-001	W10	600	2410	Fixed	00	W	No
Ktch/Din-GF	AWS-017-061-001	BF09	2400	3610	Bifold	90	N	No
Ktch/Din-GF	AWS-001-005-001	W3	2100	3250	Sliding	45	E	No
Ktch/Din-GF	AWS-001-005-001	W4	600	2035	Sliding	15	E	No
Pantry-GF	AWS-001-005-001	W4	600	2035	Sliding	15	E	No
Laundry-GF	AWS-011-006-001	SD8	2400	1570	Sliding	45	S	No
Powder-GF	AWS-007-007-001	W5	900	610	Awning	90	S	No
Bedroom 1-GF	AWS-001-005-001	W6	900	2410	Sliding	45	S	No
WIR/Bed 1-FF	AWS-007-007-001	W8	2100	610	Awning	60	W	No
Ens/Bed 1-FF	AWS-007-007-001	W7	2100	610	Awning	60	W	No
Void/Lounge-FF	AWS-067-051-001	W26	1800	3250	Fixed	00	W	Yes
Void/Lounge-FF	AWS-067-051-001	W27	900	4210	Fixed	00	N	Yes
Bedroom 2-FF	AWS-001-005-001	W24	1800	2410	Sliding	10	W	No
Ens/Bed 2-FF	AWS-007-007-001	W25	1800	610	Awning	10	W	No
Bedroom 3-FF	AWS-001-005-001	W22	600	1810	Sliding	45	S	No
Bedroom 3-FF	AWS-011-006-001	W23	1800	2410	Sliding	10	W	No
Bedroom 4-FF	AWS-001-005-001	W19	900	1810	Sliding	10	Е	No
Bedroom 4-FF	AWS-001-005-001	W20	600	1810	Sliding	45	S	No
Bedroom 5-FF	AWS-007-007-001	W15	1500	850	Awning	10	E	No
Bedroom 5-FF	AWS-007-007-001	W16	1500	850	Awning	10	E	No
Ens/Bed 5-FF	AWS-007-007-001	W17	400	1570	Awning	90	E	No
Ens/Bed 5-FF	AWS-007-007-001	W18	900	610	Awning	10	E	No
Bath-FF	AWS-001-005-001	W21	900	1570	Sliding	10	S	No

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Location	Window ID	Window no.	Height [mm]	Width Window [mm] type	Opening %	Orientation	Window shading device*

900

610 Awning

W14

10

Ε

No

Roof window* type and performance value

AWS-007-007-001

Default roof windows*

She-WIR/Bed5-FF

Window ID Window Maximum SHGC* Substitution tolerance ranges SHGC lower limit SHGC upper limit

No Data Available

Custom roof windows*

Window ID Window Maximum
Description U-value* SHGC* SHGC lower limit SHGC upper limit

No Data Available

Roof window* schedule

 Location
 Window ID
 Window no.
 Opening Imm
 Height Width Imm
 Orientation Imm
 Outdoor Shade
 Indoor Shade

No Data Available

Skylight* type and performance

Skylight ID Skylight description Skylight shaft reflectance

No Data Available

Skylight* schedule

Location Skylight Skylight Skylight Skylight Area Orientation Outdoor Diffuser [m²] Skylight Area Orientation Shade

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Lounge-GF	2400	1200	90	W
Garage-GF	2700	5500	90	W



External wall type

Wall	Wall	Solar	Wall shade	Reflective	
ID	type	absorptance	e [colour]	[R-value]	wall wrap*
EW-1	Tilt Up Concrete, Lined Timber Stud Frame	0.50		Bulk Insulation R2.5	No
EW-2	2 Timber Stud Frame Brick Veneer	0.76		Anti-glare foil with bulk no gap R2.5	No
EW-3	3 Single Skin Brick	0.76		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]
Storage-BSMT	EW-1	2440	4300	N	100	No
Storage-BSMT	EW-1	2440	10000	E	100	No
Storage-BSMT	EW-1	2440	4300	S	100	No
Stairs/Hwy-BSMT	EW-1	2440	4400	W	100	No
Lift-BSMT	EW-1	2440	1500	W	100	No
Storage-BSMT	EW-1	2440	1800	S	100	No
Storage-BSMT	EW-1	2440	4800	W	100	No
Storage-BSMT	EW-1	2440	5700	N	100	No
Storage-BSMT	EW-1	2440	4700	E	100	No
Lounge-GF	EW-2	2940	4400	W	2300	No
Lounge-GF	EW-2	2940	5700	N	100	No
Lounge-GF	EW-2	2940	4795	E	4500	No
Garage-GF	EW-2	3940	4295	N	4700	No
Garage-GF	EW-3	3940	6695	W	100	No
Ktch/Din-GF	EW-2	2940	4400	N	4900	No
Ktch/Din-GF	EW-2	2940	6995	E	100	No
Pantry-GF	EW-2	2940	2995	E	100	No
Pantry-GF	EW-2	2940	3795	S	100	No
Laundry-GF	EW-2	2940	2290	S	100	No
Powder-GF	EW-2	2940	1090	S	100	No
Bedroom 1-GF	EW-2	2940	3890	S	100	No
WIR/Bed 1-FF	EW-2	2940	1690	W	700	No
Ens/Bed 1-FF	EW-2	2940	3295	S	100	No

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Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Ens/Bed 1-FF	EW-2	2940	1995	W	700	No
Void/Lounge-FF	EW-2	2741	445	W	2050	No
Void/Lounge-FF	EW-2	2740	3950	W	450	No
Void/Lounge-FF	EW-2	2740	5695	N	450	No
Bedroom 2-FF	EW-2	2741	445	W	3150	No
Bedroom 2-FF	EW-2	2740	3745	W	450	No
Ens/Bed 2-FF	EW-2	2740	2495	W	450	No
Ens/Bed 2-FF	EW-2	2740	1150	N	450	No
Ens/Bed 2-FF	EW-2	2741	445	N	4850	No
Bedroom 3-FF	EW-2	2740	4595	S	450	No
Bedroom 3-FF	EW-2	2740	3700	W	450	No
Bedroom 3-FF	EW-2	2740	2250	N	450	No
Bedroom 3-FF	EW-2	2741	450	N	7150	No
WIR/Bed 3-FF	EW-2	2740	2590	S	450	No
Bedroom 4-FF	EW-2	2740	4295	E	450	No
Bedroom 4-FF	EW-2	2740	3795	S	450	No
Bedroom 5-FF	EW-2	2740	1390	N	450	No
Bedroom 5-FF	EW-2	2740	4190	Е	450	No
Ens/Bed 5-FF	EW-2	2740	3190	E	450	No
Ens/Bed 5-FF	EW-2	2740	1090	E	450	No
Bath-FF	EW-2	2740	3390	S	450	No
She-WIR/Bed5-FF	EW-2	2740	2995	N	450	No
She-WIR/Bed5-FF	EW-2	2740	1995	Е	450	No
Storage-BSMT	EW-1	2440	9900	S	100	No
Storage-BSMT	EW-1	2440	3700	W	100	No
Storage-BSMT	EW-1	2440	6100	N	100	No

Internal wall type

Wall ID	Wall type	Area [m ²] Bulk insulation	Area [m²]
IW-001	Tilt Concrete	44.90 No insulation	44.90
IW-002	Timber Stud Frame, Direct Fix Plasterboard	103.66 Bulk Insulation, No Air Gap R2.5	103.66



Wall ID	Wall type	Area [m²]	Bulk insulation
IW-003	Timber Stud Frame, Direct Fix Plasterboard	266.62	No insulation

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Storage-BSMT	Concrete Slab on Ground 100mm	42.80	None	No Insulation	Bare
Stairs/Hwy-BSMT	Concrete Slab on Ground 100mm	18.28	None	No Insulation	Bare
Lift-BSMT	Concrete Slab on Ground 100mm	3.62	None	No Insulation	Bare
Storage-BSMT	Concrete Slab on Ground 100mm	26.89	None	No Insulation	Bare
Lounge-GF / Storage- BSMT	Concrete Timber Framed Above Plasterboard 100mm	27.10		No Insulation	Cork Tiles or Parquetry 8mm
Garage-GF	Concrete Slab on Ground 100mm	39.20	None	No Insulation	Bare
Ktch/Din-GF / Storage- BSMT	Concrete Timber Framed Above Plasterboard 100mm	20.25		No Insulation	Cork Tiles or Parquetry 8mm
Ktch/Din-GF / Stairs/Hwy-BSMT	Concrete Timber Framed Above Plasterboard 100mm	7.67		No Insulation	Cork Tiles or Parquetry 8mm
Ktch/Din-GF / Storage- BSMT	Concrete Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Pantry-GF / Storage- BSMT	Concrete Timber Framed Above Plasterboard 100mm	9.73		No Insulation	Cork Tiles or Parquetry 8mm
Laundry-GF / Storage- BSMT	Concrete Timber Framed Above Plasterboard 100mm	0.90		No Insulation	Ceramic Tiles 8mm
Laundry-GF / Storage- BSMT	Concrete Timber Framed Above Plasterboard 100mm	3.24		No Insulation	Ceramic Tiles 8mm
Powder-GF / Storage- BSMT	Concrete Timber Framed Above Plasterboard 100mm	3.00		No Insulation	Ceramic Tiles 8mm
Bedroom 1-GF / Storage-BSMT	Concrete Timber Framed Above Plasterboard 100mm	13.90		No Insulation	Cork Tiles or Parquetry 8mm
Lift-GF / Lift-BSMT	Concrete Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
WIR/Bed 1-FF / Storage-BSMT	Concrete Timber Framed Above Plasterboard 100mm	5.93		No Insulation	Cork Tiles or Parquetry 8mm
Ens/Bed 1-FF / Storage-BSMT	Concrete Timber Framed Above Plasterboard 100mm	5.72		No Insulation	Ceramic Tiles 8mm
Lift-FF / Lift-GF	Concrete Timber Framed Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Stairs-FF / Lounge-GF	Concrete Timber Framed Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Stairs-FF / Ktch/Din-GF	Concrete Timber Framed Above Plasterboard 19mm	11.08		No Insulation	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Void/Lounge-FF / Lounge-GF	Concrete Timber Framed Above Plasterboard 19mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF / Garage- GF	Concrete Timber Framed Above Plasterboard 19mm	13.95		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Ens/Bed 2-FF / Garage- GF	Concrete Timber Framed Above Plasterboard 19mm	3.88		Bulk Insulation R2.5	Ceramic Tiles 8mm
WIR/Bed 2-FF / Lounge- GF	Concrete Timber Framed Above Plasterboard 19mm	0.47		No Insulation	Cork Tiles or Parquetry 8mm
WIR/Bed 2-FF / Garage- GF	Concrete Timber Framed Above Plasterboard 19mm	3.53		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Bedroom 3-FF / Bedroom 1-GF	Concrete Timber Framed Above Plasterboard 19mm	4.64		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 3-FF / WIR/Bed 1-FF	Concrete Timber Framed Above Plasterboard 19mm	6.16		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 3-FF / Ens/Bed 1-FF	Concrete Timber Framed Above Plasterboard 19mm	5.71		No Insulation	Cork Tiles or Parquetry 8mm
WIR/Bed 3-FF / Bedroom 1-GF	Concrete Timber Framed Above Plasterboard 19mm	6.19		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 4-FF / Ktch/Din-GF	Concrete Timber Framed Above Plasterboard 19mm	4.73		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 4-FF / Pantry- GF	Concrete Timber Framed Above Plasterboard 19mm	9.68		No Insulation	Cork Tiles or Parquetry 8mm
WIR/Bed 4-FF / Ktch/Din-GF	Concrete Timber Framed Above Plasterboard 19mm	4.17		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 5-FF / Ktch/Din-GF	Concrete Timber Framed Above Plasterboard 19mm	5.69		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 5-FF	Suspended Floor Timber Frame 19mm	14.65	Totally Open	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm
He-WIR/Bed 5-FF / Ktch/Din-GF	Concrete Timber Framed Above Plasterboard 19mm	5.13		No Insulation	Cork Tiles or Parquetry 8mm
Ens/Bed 5-FF / Ktch/Din-GF	Concrete Timber Framed Above Plasterboard 19mm	5.65		No Insulation	Ceramic Tiles 8mm
Ens/Bed 5-FF / Ktch/Din-GF	Concrete Timber Framed Above Plasterboard 19mm	1.73		No Insulation	Ceramic Tiles 8mm
Bath-FF / Laundry-GF	Concrete Timber Framed Above Plasterboard 19mm	4.33		No Insulation	Ceramic Tiles 8mm
Bath-FF / Powder-GF	Concrete Timber Framed Above Plasterboard 19mm	2.81		No Insulation	Ceramic Tiles 8mm
She-WIR/Bed5-FF	Suspended Floor Timber Frame 19mm	5.85	Totally Open	Bulk Insulation, Gap to Floor R2.5	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Storage-BSMT	Concrete Slab on Ground	36.10	None	No	Bare
Storage-DSW1	100mm	30.10		Insulation	Dale
Hwy-FF / Ktch/Din-GF	Concrete Timber Framed	3.53		No	Cork Tiles or Barquetry 9mm
HWY-FF / KICH/DIH-GF	Above Plasterboard 19mm	3.33		Insulation	Cork Tiles or Parquetry 8mm
Hwy-FF / Bedroom 1-GF	Concrete Timber Framed	2.57		No	Cork Tiles or Parquetry 8mm
riwy-rr / bediooni i-Gr	Above Plasterboard 19mm	2.31		Insulation	COIN THES OF FAIQUELLY OFFILE

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Storage-BSMT	Concrete Timber Framed Above Plasterboard	No Insulation	
Stairs/Hwy-BSMT	Concrete Timber Framed Above Plasterboard	No Insulation	
Lift-BSMT	Concrete Timber Framed Above Plasterboard	No Insulation	
Storage-BSMT	Concrete Timber Framed Above Plasterboard	No Insulation	
Lounge-GF	Concrete Timber Framed Above Plasterboard	No Insulation	
Garage-GF	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5	
Garage-GF	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2.5	
Ktch/Din-GF	Concrete Timber Framed Above Plasterboard	No Insulation	
Pantry-GF	Concrete Timber Framed Above Plasterboard	No Insulation	
Laundry-GF	Concrete Timber Framed Above Plasterboard	No Insulation	
Powder-GF	Concrete Timber Framed Above Plasterboard	No Insulation	
Bedroom 1-GF	Concrete Timber Framed Above Plasterboard	No Insulation	
Lift-GF	Concrete Timber Framed Above Plasterboard	No Insulation	
WIR/Bed 1-FF	Concrete Timber Framed Above Plasterboard	No Insulation	
Ens/Bed 1-FF	Concrete Timber Framed Above Plasterboard	No Insulation	
Lift-FF	Plasterboard on Timber	Bulk Insulation R5	
Stairs-FF	Plasterboard on Timber	Bulk Insulation R5	
Void/Lounge-FF	Plasterboard on Timber	Bulk Insulation R5	
Void/Lounge-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Bedroom 2-FF	Plasterboard on Timber	Bulk Insulation R5	
Bedroom 2-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Ens/Bed 2-FF	Plasterboard on Timber	Bulk Insulation R5	
Ens/Bed 2-FF	Plasterboard on Timber	Bulk Insulation R2.5	
WIR/Bed 2-FF	Plasterboard on Timber	Bulk Insulation R5	

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Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Bedroom 3-FF	Plasterboard on Timber	Bulk Insulation R5	
Bedroom 3-FF	Plasterboard on Timber	Bulk Insulation R2.5	
WIR/Bed 3-FF	Plasterboard on Timber	Bulk Insulation R5	
WIR/Bed 3-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Bedroom 4-FF	Plasterboard on Timber	Bulk Insulation R5	
Bedroom 4-FF	Plasterboard on Timber	Bulk Insulation R2.5	
WIR/Bed 4-FF	Plasterboard on Timber	Bulk Insulation R5	
Bedroom 5-FF	Plasterboard on Timber	Bulk Insulation R5	
Bedroom 5-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Bedroom 5-FF	Plasterboard on Timber	Bulk Insulation R2.5	
He-WIR/Bed 5-FF	Plasterboard on Timber	Bulk Insulation R5	
Ens/Bed 5-FF	Plasterboard on Timber	Bulk Insulation R5	
Ens/Bed 5-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Ens/Bed 5-FF	Plasterboard on Timber	Bulk Insulation R5	
Ens/Bed 5-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Bath-FF	Plasterboard on Timber	Bulk Insulation R5	
Bath-FF	Plasterboard on Timber	Bulk Insulation R2.5	
She-WIR/Bed5-FF	Plasterboard on Timber	Bulk Insulation R5	
She-WIR/Bed5-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Storage-BSMT	Concrete Timber Framed Above Plasterboar	d No Insulation	
Hwy-FF	Plasterboard on Timber	Bulk Insulation R5	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Storage-BSMT	18	Downlights - LED	0	Sealed
Stairs/Hwy-BSMT	4	Downlights - LED	0	Sealed
Storage-BSMT	11	Downlights - LED	0	Sealed
Ktch/Din-GF	18	Downlights - LED	0	Sealed
Ktch/Din-GF	1	Exhaust Fans	350	Sealed
Pantry-GF	4	Downlights - LED	0	Sealed
Laundry-GF	1	Downlights - LED	0	Sealed
Powder-GF	1	Downlights - LED	0	Sealed

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Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	
Bedroom 1-GF	6	Downlights - LED	0	Sealed	
WIR/Bed 1-FF	2	Downlights - LED	0	Sealed	
Ens/Bed 1-FF	2	Downlights - LED	0	Sealed	
Stairs-FF	9	Downlights - LED	0	Sealed	
Void/Lounge-FF	10	Downlights - LED	0	Sealed	
Bedroom 2-FF	6	Downlights - LED	0	Sealed	
Ens/Bed 2-FF	1	Downlights - LED	0	Sealed	
Ens/Bed 2-FF	1	Exhaust Fans	350	Sealed	
WIR/Bed 2-FF	1	Downlights - LED	0	Sealed	
Bedroom 3-FF	6	Downlights - LED	0	Sealed	
WIR/Bed 3-FF	2	Downlights - LED	0	Sealed	
Bedroom 4-FF	6	Downlights - LED	0	Sealed	
WIR/Bed 4-FF	1	Downlights - LED	0	Sealed	
Bedroom 5-FF	8	Downlights - LED	0	Sealed	
He-WIR/Bed 5-FF	2	Downlights - LED	0	Sealed	
Ens/Bed 5-FF	2	Downlights - LED	0	Sealed	
Ens/Bed 5-FF	1	Downlights - LED	0	Sealed	
Ens/Bed 5-FF	1	Exhaust Fans	350	Sealed	
Bath-FF	2	Downlights - LED	0	Sealed	
Bath-FF	1	Exhaust Fans	350	Unsealed	
She-WIR/Bed5-FF	2	Downlights - LED	0	Sealed	
Storage-BSMT	15	Downlights - LED	0	Sealed	
Hwy-FF	2	Downlights - LED	0	Sealed	

Ceiling fans

Location	Quantity	Diameter [mm]
Bedroom 1-GF	1	1200
Stairs-FF	1	1200
Bedroom 2-FF	1	1200
Bedroom 3-FF	1	1200
Bedroom 4-FF	1	1200
Bedroom 5-FF	1	1200



Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Corrugated Iron Timber Frame	No Insulation, Only an Air Gap	0.50	Medium
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.50	Medium
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.8	0.48	Medium

Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]
N. B. (A. 31.11				

No Data Available

Appliance schedule

(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

Note: A flat assumption of 5W/m² is used for lighting, therefore lighting is not included in the appliance schedule.

Cooling system

No Data Available

Appliance/ system type	Lo	cation F	uel type	eff	inimum iciency/ formance		mended acity
No Data Available							
Heating system							
Appliance/ system type	Lo	cation F	uel type	eff	inimum iciency/ formance		mended acity
No Data Available							
Hot water system							
Appliance/ system type	Fuel type	Hot Water CER Zone	Minimum efficiency /STC	Zone 3 STC		ubstitution e ranges upper limit	Assessed daily load [litres]
No Data Available							
Pool/spa equipment							
Appliance/ system type		Fuel type		Minimu efficiend	cy/	Recomm capac	

performance

Size [Battery Storage Capacity]



Onsite Renewable Energy Schedule

System Type	Orientation	System Size Or Generation Capacity	_
No Data Available			
			•
Battery Sched	dule		

No Data Available

System Type



Explanatory notes

About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary.

Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and

are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

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

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

Glossary

Ansual energy load the predicted amount of energy required for healing and cooling, based on standard occupency assumptions. He floor area in the floor area modelled in the software for the purpose of the NatHERS assessed floor, the colling penetrations the floor area in the design documents. Ceiling penetrations Ceiling penetrations Cop Codfliction (Cop Codfliction (Cop) Codfliction	AFRC	Australian Fenestration Rating Council
the floor area in the design documents. Ceiling penetrations Ceiling penetrations Ceiling penetrations Ceiling penetrations Ceiling penetrations Committee that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues excludes fixtures shadned to the ceiling with small holes through the ceiling for whining, e.g. ceiling frais, pendant lights, and CoPP Conditioned 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 Default windows Default windows Default windows Default windows 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 betteries. 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 ABCE Housing Trovisions Standard). Exposure Exposure category – exposed Exposure category – protected Exposure category – protected Exposure category – protected Exposure category – protected Exposure category – suburban Horizontal shading feature National Construction Code (ICC) Class Metalogory – suburban Horizontal shading feature Provisional value Provisional value Provisional value Provisional value From the construction code (ICC) Class Reference and the construction of the construction as a similar height e.g. grasslands with few well seatched obstructions below 10m, a similar period with exposure of the construction of the constru		· ·
COP Coefficient of performance Conditioned a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some conditioned a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some conditioned a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some conditioned by a substantial and have a WERS (Window Energy Rating Scheme) rating. Befull windows at hat are representative of a specific type of window product and whose properties have been derived by statistical methods. Energy Sefficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input Energy value This is your homes rating without solar or batteries. Energy Value The reprosentative of the specific type of window product and whose properties have been derived by statistical methods. Entrance door This is your homes rating without solar or batteries. Entrance door The reprosentative of the specific type of window product and whose properties have been derived by statistical methods. Entrance door The reprosentative of the specific type of window product and whose properties have been derived by statistical methods. Entrance door The reprosentative of the specific type of window product and whose properties have been derived by statistical methods. Entrance door The reprosentative of the specific type of window product and whose properties have been derived by statistical methods. Entrance door The reprosentative of the specific type of window product and whose and conditioner of the specific type of window products and t	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
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. Default windows windows such as the control of the contro	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.
Custom windows windows sundows listed in NattRERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating, windows listed in NattRERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating, windows that are representative of a specific type of window product and whose properties have been derived by statistical windows. EER Energy Lefficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input. The net cool 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). Energy value These signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corndor 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). Errain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). Exposure category – suburban Errain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas. Errain with numerous, dosely spaced obstructions and the companibility precentage or perable (mortontal plane, e.g. eaves, verandors, periodes, and one of the capacity of the companibility percentage or operable (mortontal plane, e.g. eaves, verandors, periodes, and can be found at www.abots, gov. and a provisional value of medical Acceptable provisional values are outlined in the NatHERS technical Note and can be found at www.abots, gov. and a provisional value of medical Acceptable provisional values are outlined in the NatHERS technical Note and can be found at www.abo	COP	
Default windows Scheme) rating. Windows what are representative of a specific type of window product and whose properties have been derived by statistical methods. ERR 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 AECH busing Provisions Standard). Entrance door Exposure Exposure Exposure extegory – exposed Exposure extegory – exposed Exposure category – protected Exposure category – protected Exposure category – protected Exposure category – suburban Horizontal shading feature Mational Construction Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class Atlandard Code (NCC) Class A home that achieves a net zero energy value* Opening percentage Recommended capacity Frovisional value Recommended capacity For All-ERS bits is typically an operable window (i.e. can be openablity percentage or operable (moveable) area of doors or windows that is used in ventilation calculations. An answer and must not be modelled as a door when opening to a minimally ventilated bushland areas. Iterating with numerous, closely spaced obstructions below (Tom., farmland with company of the provisions of the provi	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.
methods. ERE 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 ABCE Housing Provisions Standard). Entrance door the seasing very exposed the season of the	Custom windows	
Energy value This is your homes rating without solar or batteries. 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). Exposure 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 no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). Exposure category — protected Exposure category — protected Exposure category — protected Exposure category — protected Exposure category — submit the no obstructions as a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered shesh, lightly vegetated bush blocks, efevated units (e.g. alway in industrial areas. Horizontal shading feature National Construction Code (MCC) Class 1.2 or 4 buildings in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels. Net zero home a home that achieves a net zero energy value*. Provisional value Recommended capacity Reflective wrap (also known as continued that 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 recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommended by NatHERS that is used in ventilation calculations. Reflective wrap (also known as collipst). 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. For NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level. Thermal breaks For NatHERS this is typically a moulded unit with flexible reflective tubing (light well	Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
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). Exposure Exposure category – exposed Exposure category – exposed Exposure category – open Exposure category – open Exposure category – open Exposure category – protected Exposure category – subtractions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). Exposure category – subtractions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheek, lightly vegetated bush blocks, effectated units (e.g., above 3 floors). Exposure category – subtractions at a similar height e.g. grasslands with few well scattered obstructions below 10m e.g. subtractions and provides shading to the building in the horizontal plane, e.g., eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels. Net zero home The record of the provides shading to the buildings by their function and use, and assigns a classification code. NatHERS software models NCC (Class 1, 2 or 4 buildings and attached class 110 buildings. Definitions can be found at www.abcb.gov.au. The provisional value and	EER	
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Exposure see exposure category – exposed terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).	Energy value	defined in the ABCB Housing Provisions Standard).
Exposure category - exposed terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).	_	ventilated corridor in a Class 2 building.
terrain with few obstructions at a similar height e.g. grasslands with few well scattered bestructions below 10m, farmland with scattered sheds, lightly vegetated bush holosk, elevated nike (e.g. above 3 floors). Exposure category – protected terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas. 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 N ENC 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 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, and the provisional value are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au. It is 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 folights) 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 Shading features Shading features Single features Solar heat gain coefficient (SHGC)	_ •	
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Exposure category – suburban 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.		scattered sneds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
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 Net zero home Opening percentage The provisional value Provisional value Recommended capacity Reflective wrap (also known as foil) 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 Skylight (also known as roof lights) for NatHERS this is typically an operable window (sHGC) Solar heat gain coefficient (SHGC) Thermal breaks Thermal breaks Provides shading features Provides shading features provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels. The horizontal value of medium in 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. The openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations. The openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations. The openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations. The medium in use the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations. The medium in use the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations. The medium in use the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations. The medium in use the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations. The medium in use of medium in use the modelled. Acceptable provisional value are outlined t		
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Net zero home		from upper levels.
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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 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) Reflective wrap (also known as foil) 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 Rodflight (also known as roof lights) for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level. Solar heat gain coefficient (SHGC) Solar heat gain coefficient (SHGC) STCs Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulator (CER) Thermal breaks U-value Unconditioned Provides hading features an assumed value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions. Wertical shading features Window shading features Window shading device Window shading device an activation of incident solar and activation 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).		07
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