### Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. 0011766185-01

Generated on 07 Mar 2025 using BERS Pro v5.2.4 (3.23)

### **Property**

Address Unit 120C, 120A Marco Avenue,

PANANIA, NSW, 2213

Lot/DP Lot 2 DP 612941

NCC class\* 1:

Floor/all Floors G of 2 floors

Type New Home

#### **Plans**

Main plan n/a
Prepared by n/a

### Construction and environment

Assessed floor area [m2]\*

Conditioned\* 246.1 Unconditioned\* 11.9

Total 295.4

Garage 37.4

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 <a href="www.abcb.gov.au">www.abcb.gov.au</a>.

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

### Thermal performance Star rating



# NATIONWIDE HOUSE

29.9 MJ/m<sup>2</sup>

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/m<sup>2</sup>]

Limits taken from ABCB Standard 2022

	Heating	Cooling		
Modelled	15.6	14.3		
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

hstar.com.au

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





### **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

Νo

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.

A	*	
H	OΙ	ÿsi

Certificate check	Approval Stage Construction Stage				
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Assess	Consen	Builder	Consen	Occupa
Genuine certificate check		1	<u>'</u>		
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check					
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in '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					

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7 Star Rating as of 07 Mar 2025

HOUSE

	Approva	l Stage	Stage Stage		
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not include	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	ted)
Appliances					
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 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	assessr	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 brick veneer construction on the ground and first floor. (internal stud walls and internal timber 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]
Garage-GF	Garage	37.42
Pooja-GF	Daytime	6.68
Entry/Hwy-GF	Daytime	8.58
Media-GF	Daytime	13.71
Powder-GF	Unconditioned	3.31
Hwy/Pdr-GF	Daytime	1.39
Ktch/Liv/Din-GF	Kitchen/Living	70.05
Pantry-GF	Daytime	10.11
Laundry-GF	Unconditioned	3.49
Store-GF	Daytime	3.26
Bed 1-GF	Bedroom	15.49
WIR/Bed 1-GF	Nighttime	4.88
Ens/Bed 1-GF	Nighttime	5.34
Rumpus-FF	Living	30.09
Void 1-FF	Unconditioned	16.04
Void/Entry-FF	Unconditioned	6.88
Bath-FF	Unconditioned	5.07
Bedroom 5-FF	Bedroom	21.53
WIR/M.Bed-5	Nighttime	6.77
Ens/M.Bed 5-FF	Nighttime	9.06

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Room	Zone Type	Area [m²]	CHILITON SOME &	
Bedroom 4-FF	Bedroom	12.99		
WIR/Bed 4-FF	Nighttime	4.3		
Ens/M.Bed 4-FF	Nighttime	4.37		
Bed 3-FF	Bedroom	14.17		
Bedroom 2-FF	Bedroom	10.96		

### Window and glazed door type and performance

#### Default windows\*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges			
	Description	U-value*	эпис	SHGC lower limit	SHGC upper limit		
No Data Avail	able						

#### Custom windows\*

Window ID	Window	Maximum	SUCC*	Substitution tolerance ranges			
window iD	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit		
AWS-001-001	Aluminium Sliding Window SG 3Clr	6.4	0.73	0.69	0.77		
AWS-003-008	Aluminium Sliding Window DG 3Clr/12Ar/3ET	3.4	0.56	0.54	0.59		
AWS-013-003	Aluminium Sliding Door DG 4Clr/10Ar/4ET	3.2	0.57	0.54	0.60		
AWS-011-001	Aluminium Sliding Door SG 5Clr	6.2	0.72	0.69	0.76		
AWS-066-002	Aluminium Fixed Window SG 6.38CPNtl	3.9	0.47	0.44	0.49		
AWS-007-001	Aluminium Awning Window SG 3Clr	6.5	0.66	0.63	0.69		

### Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Pooja-GF	AWS-001-001-001	W1	2100	850	Sliding	30	Е	No
Pooja-GF	AWS-001-001-001	W2	2100	850	Sliding	30	E	No
Media-GF	AWS-001-001-001	W3	900	2410	Sliding	30	N	No
Powder-GF	AWS-001-001-001	W4	900	850	Sliding	45	N	No
Ktch/Liv/Din-GF	AWS-003-008-001	W6	600	2410	Sliding	45	W	No
Ktch/Liv/Din-GF	AWS-013-003-001	SD9	2400	3250	Sliding	60	W	No
Ktch/Liv/Din-GF	AWS-003-008-001	W5	2100	2410	Sliding	23	N	No



Window ID	Window no.	Height [mm]			Opening %	Orientation	Window shading device*
AWS-001-001-001	W7	600	1210	Sliding	45	W	No
AWS-011-001-001	SD8	2400	1570	Sliding	45	W	No
AWS-001-001-001	W8	900	2410	Sliding	30	S	No
AWS-001-001-001	W9	900	1210	Sliding	45	S	No
AWS-001-001-001	W11	900	2410	Sliding	10	N	No
AWS-066-002-001	W23	900	610	Fixed	00	S	No
AWS-066-002-001	W13	900	3250	Fixed	00	W	No
AWS-066-002-001	W20	1500	850	Fixed	00	Е	No
AWS-001-001-001	W10	900	850	Sliding	10	N	No
AWS-001-001-001	W18	1500	850	Sliding	10	Е	No
AWS-001-001-001	W19	1500	850	Sliding	10	Е	No
AWS-001-001-001	W17	1500	850	Sliding	10	E	No
AWS-001-001-001	W16	900	1210	Sliding	10	S	No
AWS-001-001-001	W15	900	2410	Sliding	10	S	No
AWS-007-001-001	W14	900	610	Awning	10	W	No
AWS-001-001-001	W12	900	2410	Sliding	10	W	No
AWS-001-001-001	W21	1500	850	Sliding	10	Е	No
AWS-001-001-001	W22	1500	850	Sliding	10	E	No
	AWS-001-001-001 AWS-011-001-001 AWS-001-001-001 AWS-001-001-001 AWS-001-001-001 AWS-066-002-001 AWS-066-002-001 AWS-001-001-001 AWS-001-001-001 AWS-001-001-001 AWS-001-001-001 AWS-001-001-001 AWS-001-001-001 AWS-001-001-001 AWS-001-001-001	ID         no.           AWS-001-001-001         W7           AWS-011-001-001         SD8           AWS-001-001-001         W8           AWS-001-001-001         W9           AWS-066-002-001         W11           AWS-066-002-001         W23           AWS-066-002-001         W20           AWS-001-001-001         W10           AWS-001-001-001         W18           AWS-001-001-001         W17           AWS-001-001-001         W15           AWS-001-001-001         W14           AWS-001-001-001         W12           AWS-001-001-001         W20	ID         no.         [mm]           AWS-001-001-001         W7         600           AWS-011-001-001         SD8         2400           AWS-001-001-001         W8         900           AWS-001-001-001         W9         900           AWS-001-001-001         W11         900           AWS-066-002-001         W23         900           AWS-066-002-001         W13         900           AWS-066-002-001         W20         1500           AWS-001-001-001         W10         900           AWS-001-001-001         W18         1500           AWS-001-001-001         W17         1500           AWS-001-001-001         W16         900           AWS-001-001-001         W15         900           AWS-007-001-001         W14         900           AWS-001-001-001         W12         900           AWS-001-001-001         W12         900	ID         no.         [mm]         [mm]           AWS-001-001-001         W7         600         1210           AWS-011-001-001         SD8         2400         1570           AWS-001-001-001         W8         900         2410           AWS-001-001-001         W9         900         1210           AWS-001-001-001         W11         900         2410           AWS-066-002-001         W23         900         610           AWS-066-002-001         W13         900         3250           AWS-066-002-001         W20         1500         850           AWS-001-001-001         W10         900         850           AWS-001-001-001         W18         1500         850           AWS-001-001-001         W17         1500         850           AWS-001-001-001         W16         900         1210           AWS-001-001-001         W15         900         2410           AWS-007-001-001         W14         900         610           AWS-001-001-001         W12         900         2410           AWS-001-001-001         W12         900         2410	ID         no.         [mm]         [mm]         type           AWS-001-001-001         W7         600         1210         Sliding           AWS-011-001-001         SD8         2400         1570         Sliding           AWS-001-001-001         W8         900         2410         Sliding           AWS-001-001-001         W9         900         1210         Sliding           AWS-001-001-001         W11         900         2410         Sliding           AWS-066-002-001         W23         900         610         Fixed           AWS-066-002-001         W13         900         3250         Fixed           AWS-066-002-001         W20         1500         850         Fixed           AWS-066-002-001         W10         900         850         Sliding           AWS-001-001-001         W10         900         850         Sliding           AWS-001-001-001         W18         1500         850         Sliding           AWS-001-001-001         W16         900         1210         Sliding           AWS-001-001-001         W16         900         2410         Sliding           AWS-001-001-001         W14         900	ID         no.         [mm]         [mm]         type         %           AWS-001-001-001         W7         600         1210         Sliding         45           AWS-011-001-001         SD8         2400         1570         Sliding         45           AWS-001-001-001         W8         900         2410         Sliding         30           AWS-001-001-001         W9         900         1210         Sliding         10           AWS-001-001-001         W11         900         2410         Sliding         10           AWS-066-002-001         W23         900         610         Fixed         00           AWS-066-002-001         W13         900         3250         Fixed         00           AWS-066-002-001         W20         1500         850         Fixed         00           AWS-066-002-001         W10         900         850         Sliding         10           AWS-001-001-001         W10         900         850         Sliding         10           AWS-001-001-001         W17         1500         850         Sliding         10           AWS-001-001-001         W16         900         1210         Sliding	ID         no.         [mm]         [mm]         type         %         Orientation           AWS-001-001-001         W7         600         1210         Sliding         45         W           AWS-011-001-001         SD8         2400         1570         Sliding         45         W           AWS-001-001-001         W8         900         2410         Sliding         30         S           AWS-001-001-001         W9         900         1210         Sliding         45         S           AWS-001-001-001         W11         900         2410         Sliding         10         N           AWS-066-002-001         W23         900         610         Fixed         00         S           AWS-066-002-001         W13         900         3250         Fixed         00         W           AWS-066-002-001         W20         1500         850         Fixed         00         E           AWS-066-002-001         W10         900         850         Sliding         10         N           AWS-001-001-001         W18         1500         850         Sliding         10         E           AWS-001-001-001         W16         900 </td

### Roof window\* type and performance value

Default roof windows\*

Window ID	Window ID Window Maximum SHGC* SHGC*		Substitution to	lerance ranges
willdow iD			SHGC	SHGC lower limit
No Data Available				

Custom roof windows\*

Window ID SHGC* —		Substitution tolerance ranges			
willdow iD	Description	U-value*	эпис	SHGC lower limit	SHGC upper limit
No Data Avail	able				



### Roof window\* schedule

Location	Window	Window	Opening	Height	Width	Orientation	Outdoor	Indoor
Location	ID	no.	%	[mm]	[mm]	Orientation	shade	shade

No Data Available

### **Skylight**\* *type* and *performance*

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

### Skylight\* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area Orientation [m²]	Outdoor shade	Diffuser	
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No Data Available

#### External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage-GF	2700	5400	90	E
Entry/Hwy-GF	2340	1200	90	E

### External wall type

Wall	Wall	Solar	Wall shade	Bulk insulation	Reflective
ID	type	absorptance	[colour]	[R-value]	wall wrap*
EW-1	Timber Stud Frame Brick Veneer	0.78		Anti-glare foil with bulk no gap R2.5	No
EW-2	Single Skin Brick	0.78		No insulation	No
EW-3	Timber Stud Frame Brick Veneer	0.50		Anti-glare foil with bulk no gap R2.5	No

### External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Garage-GF	EW-1	3026	2400	S	100	No
Garage-GF	EW-1	3026	700	N	5400	No
Garage-GF	EW-2	3026	6100	E	100	No
Pooja-GF	EW-1	2940	1895	N	100	No
Pooja-GF	EW-1	2940	3595	E	1500	Yes
		•		•	<u> </u>	<u> </u>



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Entry/Hwy-GF	EW-1	2940	1590	E	1500	No
Media-GF	EW-1	2940	3890	N	100	No
Powder-GF	EW-1	2940	1390	N	100	No
Ktch/Liv/Din-GF	EW-1	2940	2445	W	100	Yes
Ktch/Liv/Din-GF	EW-3	2941	350	W	2650	No
Ktch/Liv/Din-GF	EW-1	2940	800	N	6650	No
Ktch/Liv/Din-GF	EW-1	2940	6650	W	3450	Yes
Ktch/Liv/Din-GF	EW-1	2941	1050	W	100	No
Ktch/Liv/Din-GF	EW-1	2940	5095	N	100	No
Pantry-GF	EW-1	2940	1595	W	400	Yes
Pantry-GF	EW-1	2941	1095	W	100	No
Laundry-GF	EW-1	2940	1995	S	400	No
Laundry-GF	EW-1	2940	1795	W	400	Yes
Store-GF	EW-1	2940	1890	S	400	No
Bed 1-GF	EW-1	2940	4590	S	400	No
WIR/Bed 1-GF	EW-1	2940	1590	E	350	No
Ens/Bed 1-GF	EW-1	2940	2095	E	350	No
Ens/Bed 1-GF	EW-1	2940	2895	S	400	No
Rumpus-FF	EW-1	2740	2990	N	450	No
Rumpus-FF	EW-1	2740	1290	S	450	No
Void 1-FF	EW-1	2740	4090	W	450	No
Void/Entry-FF	EW-1	2740	1590	Е	400	No
Bath-FF	EW-1	2740	2190	N	450	No
Bedroom 5-FF	EW-1	2740	700	N	5650	No
Bedroom 5-FF	EW-1	2740	3995	E	450	No
Bedroom 5-FF	EW-1	2740	990	S	450	No
WIR/M.Bed-5	EW-1	2740	2095	E	450	No
WIR/M.Bed-5	EW-1	2740	3295	S	450	No
Ens/M.Bed 5-FF	EW-1	2740	1990	S	450	No
Bedroom 4-FF	EW-1	2740	3690	S	450	No
WIR/Bed 4-FF	EW-1	2740	2495	S	450	No

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Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]	
WIR/Bed 4-FF	EW-1	2740	1595	W	450	No	
Ens/M.Bed 4-FF	EW-1	2740	800	N	8150	No	
Ens/M.Bed 4-FF	EW-1	2740	1995	W	450	No	
Bed 3-FF	EW-1	2740	3995	N	450	No	
Bed 3-FF	EW-1	2740	3595	W	450	Yes	
Bedroom 2-FF	EW-1	2740	3095	N	450	No	
Bedroom 2-FF	EW-1	2740	3595	E	400	Yes	

### Internal wall type

Wall ID	Wall type	Area [m <sup>2</sup> ]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	37.34	Bulk Insulation, No Air Gap R2.5
IW-002	Timber Stud Frame, Direct Fix Plasterboard	306.50	No insulation

### Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage-GF	Concrete Slab on Ground 100mm	37.37	None	No Insulation	Bare
Pooja-GF	Concrete Slab on Ground 100mm	6.68	None	No Insulation	Cork Tiles or Parquetry 8mm
Entry/Hwy-GF	Concrete Slab on Ground 100mm	8.58	None	No Insulation	Cork Tiles or Parquetry 8mm
Media-GF	Concrete Slab on Ground 100mm	13.71	None	No Insulation	Cork Tiles or Parquetry 8mm
Powder-GF	Concrete Slab on Ground 100mm	3.31	None	No Insulation	Ceramic Tiles 8mm
Hwy/Pdr-GF	Concrete Slab on Ground 100mm	1.39	None	No Insulation	Cork Tiles or Parquetry 8mm
Ktch/Liv/Din-GF	Concrete Slab on Ground 100mm	70.05	None	No Insulation	Cork Tiles or Parquetry 8mm
Pantry-GF	Concrete Slab on Ground 100mm	10.11	None	No Insulation	Cork Tiles or Parquetry 8mm
Laundry-GF	Concrete Slab on Ground 100mm	3.49	None	No Insulation	Ceramic Tiles 8mm
Store-GF	Concrete Slab on Ground 100mm	3.26	None	No Insulation	Cork Tiles or Parquetry 8mm
Bed 1-GF	Concrete Slab on Ground 100mm	15.49	None	No Insulation	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
WIR/Bed 1-GF	Concrete Slab on Ground 100mm	4.88	None	No Insulation	Cork Tiles or Parquetry 8mm
Ens/Bed 1-GF	Concrete Slab on Ground 100mm	5.34	None	No Insulation	Ceramic Tiles 8mm
Rumpus-FF / Entry/Hwy- GF	- AAC Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Rumpus-FF / Media-GF	AAC Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Rumpus-FF / Powder- GF	AAC Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Rumpus-FF / Hwy/Pdr- GF	AAC Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Rumpus-FF / Ktch/Liv/Din-GF	AAC Timber Framed Above Plasterboard 100mm	11.22		No Insulation	Cork Tiles or Parquetry 8mm
Void 1-FF / Ktch/Liv/Din- GF	AAC Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Void/Entry-FF / Entry/Hwy-GF	AAC Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Bath-FF / Media-GF	AAC Timber Framed Above Plasterboard 100mm	5.07		No Insulation	Ceramic Tiles 8mm
Bedroom 5-FF / Garage- GF	· AAC Timber Framed Above Plasterboard 100mm	21.52		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
WIR/M.Bed-5 / Garage- GF	AAC Timber Framed Above Plasterboard 100mm	6.77		Bulk Insulation R2.5	Cork Tiles or Parquetry 8mm
Ens/M.Bed 5-FF / Garage-GF	AAC Timber Framed Above Plasterboard 100mm	9.06		Bulk Insulation R2.5	Ceramic Tiles 8mm
Bedroom 4-FF / Ktch/Liv/Din-GF	AAC Timber Framed Above Plasterboard 100mm	12.67		No Insulation	Cork Tiles or Parquetry 8mm
WIR/Bed 4-FF / Ktch/Liv/Din-GF	AAC Timber Framed Above Plasterboard 100mm	2.69		No Insulation	Cork Tiles or Parquetry 8mm
WIR/Bed 4-FF / Pantry- GF	AAC Timber Framed Above Plasterboard 100mm	1.45		No Insulation	Cork Tiles or Parquetry 8mm
Ens/M.Bed 4-FF / Ktch/Liv/Din-GF	AAC Timber Framed Above Plasterboard 100mm	4.37		No Insulation	Ceramic Tiles 8mm
Bed 3-FF / Ktch/Liv/Din- GF	AAC Timber Framed Above Plasterboard 100mm	14.17		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF / Pooja- GF	AAC Timber Framed Above Plasterboard 100mm	6.64		No Insulation	Cork Tiles or Parquetry 8mm
Bedroom 2-FF / Media- GF	AAC Timber Framed Above Plasterboard 100mm	4.11		No Insulation	Cork Tiles or Parquetry 8mm



### Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Garage-GF	AAC Timber Framed Above Plasterboard	Bulk Insulation R2.5	
Pooja-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Entry/Hwy-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Media-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Powder-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Hwy/Pdr-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Ktch/Liv/Din-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Pantry-GF	Plasterboard on Timber	Bulk Insulation R5	
Pantry-GF	Plasterboard on Timber	Bulk Insulation R2.5	
Pantry-GF	AAC Timber Framed Above Plasterboard	No Insulation	
Laundry-GF	Plasterboard on Timber	Bulk Insulation R5	
Laundry-GF	Plasterboard on Timber	Bulk Insulation R2.5	
Store-GF	Plasterboard on Timber	Bulk Insulation R5	
Store-GF	Plasterboard on Timber	Bulk Insulation R2.5	
Bed 1-GF	Plasterboard on Timber	Bulk Insulation R5	
Bed 1-GF	Plasterboard on Timber	Bulk Insulation R2.5	
WIR/Bed 1-GF	Plasterboard on Timber	Bulk Insulation R5	
WIR/Bed 1-GF	Plasterboard on Timber	Bulk Insulation R2.5	
Ens/Bed 1-GF	Plasterboard on Timber	Bulk Insulation R5	
Ens/Bed 1-GF	Plasterboard on Timber	Bulk Insulation R2.5	
Rumpus-FF	Plasterboard on Timber	Bulk Insulation R5	
Rumpus-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Rumpus-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Void 1-FF	Plasterboard on Timber	Bulk Insulation R5	
Void 1-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Void/Entry-FF	Plasterboard on Timber	Bulk Insulation R5	
Void/Entry-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	
Bedroom 5-FF	Plasterboard on Timber	Bulk Insulation R5	

0011766185-01 NatHERS Certificate	7 Star Rating as of 07 Mar 2025
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Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Bedroom 5-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Bedroom 5-FF	Plasterboard on Timber	Bulk Insulation R2.5	
WIR/M.Bed-5	Plasterboard on Timber	Bulk Insulation R5	
WIR/M.Bed-5	Plasterboard on Timber	Bulk Insulation R2.5	
Ens/M.Bed 5-FF	Plasterboard on Timber	Bulk Insulation R5	
Ens/M.Bed 5-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	
WIR/Bed 4-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Ens/M.Bed 4-FF	Plasterboard on Timber	Bulk Insulation R5	
Ens/M.Bed 4-FF	Plasterboard on Timber	Bulk Insulation R2.5	
Bed 3-FF	Plasterboard on Timber	Bulk Insulation R5	
Bed 3-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	

### Ceiling penetrations\*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Pooja-GF	2	Downlights - LED	0	Sealed
Entry/Hwy-GF	1	Downlights - LED	0	Sealed
Media-GF	6	Downlights - LED	0	Sealed
Powder-GF	1	Downlights - LED	0	Sealed
Hwy/Pdr-GF	1	Downlights - LED	0	Sealed
Ktch/Liv/Din-GF	20	Downlights - LED	0	Sealed
Ktch/Liv/Din-GF	1	Exhaust Fans	350	Sealed
Pantry-GF	4	Downlights - LED	0	Sealed
Laundry-GF	1	Downlights - LED	0	Sealed
Store-GF	1	Downlights - LED	0	Sealed
Bed 1-GF	6	Downlights - LED	0	Sealed
WIR/Bed 1-GF	2	Downlights - LED	0	Sealed
Ens/Bed 1-GF	2	Downlights - LED	0	Sealed

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Location	Quantity	у Туре	Diameter [mm]	Sealed/unsealed	
Rumpus-FF	12	Downlights - LED	0	Sealed	
Void 1-FF	6	Downlights - LED	0	Sealed	
Void/Entry-FF	2	Downlights - LED	0	Sealed	
Bath-FF	2	Downlights - LED	0	Sealed	
Bedroom 5-FF	9	Downlights - LED	0	Sealed	
Ens/M.Bed 5-FF	2	Downlights - LED	0	Sealed	
Bedroom 4-FF	5	Downlights - LED	0	Sealed	
WIR/Bed 4-FF	1	Downlights - LED	0	Sealed	
Ens/M.Bed 4-FF	1	Downlights - LED	0	Sealed	
Bed 3-FF	6	Downlights - LED	0	Sealed	
Bedroom 2-FF	4	Downlights - LED	0	Sealed	

### Ceiling fans

Location	Quantity	Diameter [mm]
Ktch/Liv/Din-GF	1	1200
Rumpus-FF	1	1200
Bedroom 5-FF	1	1200

### Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
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 R1.3	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]
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/m<sup>2</sup> is used for lighting, therefore lighting is not included in the appliance schedule.

## HOUSE

#### Cooling system

Appliance/ system type	Minimum system type Efficiency/ performance		Recommended capacity				
No Data Available							
Heating system							
Appliance/ system type	Lo	cation F	uel type	eff	nimum iciency/ ormance		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		Minimum efficience performa	cy/	Recomm capac	
No Data Available							
Onsite Renewable	e Energy Sch	edule					
System Type	Orientation		Syst	em Size O	r Generation	Capacity	
No Data Available							
Battery Schedule							
System Type	Size [Ba	ttery Storage	Capacity]				
No Data Available							



### **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**

AFRC	Australian Fenestration Rating Council
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, 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.
СОР	Coefficient of performance
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.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure	see exposure categories below.
Exposure category – exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – protected	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – suburban	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate airgap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Skylight (also known as roof lights)	of NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
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.
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	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick or continuous thermal breaks such as polystyrene insulation sheeting or plastic strips
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions.
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).
Window shading device	device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)