# Nationwide House Energy Rating Scheme<sup>®</sup> NatHERS<sup>®</sup> Certificate No. 0011790847

Generated on 18 Mar 2025 using BERS Pro v5.2.4 (3.23)

### Property

Address 521 Ulan Road,

EURUNDEREE . NSW . 2850

Lot/DP Lot 2 DP 618062

NCC class\* 1a

Floor/all Floors G of 1 floors

Type New Home

#### **Plans**

Garage

Main plan Job No: 25014. Date: 24.02.25
Prepared by Drawn: WP. Avalon Drafting

#### Construction and environment

Assessed floor area [m2]\* Exposure type
Conditioned\* 260.4 Suburban

Unconditioned\* 20.9

Total 333.0

NatHERS climate zone 65 Orange



51.8

Name Daniel Lowe

Business name Enewergy Thermal Performance
Email daniel.lowe@enewergy.com.au

 Phone
 0435 054 933

 Accreditation No.
 HERA10030

Assessor Accrediting Organisation

HERA

Declaration of interest Declaration completed: no conflicts

### **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

155.1 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	144.6	10.5
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=uctSCHiNY. 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

Νo

NA - Not Applicable

Outdoor Living Area Ceiling Fan:

Yes

No

NA - Not Applicable



No Whole
of Home
performance
assessment
conducted for this
certificate

## Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

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#### 7 Star Rating as of 18 Mar 2025

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Certificate check	Approva	l Stage	Construct Stage	ction	
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.	Asse	Conse	Builde	Cons	Occul
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					
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 18 Mar 2025

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	Approva	I Stage	Constru Stage	ction	
Certificate check	ecked	hority/ ecked	ked	hority	Other
Continued	or ch	nt Aut or che	chec	nt Aut or che	ancy/6
	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not included)	ıded in ti	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	ment)		
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					



### Room schedule

Room	Zone Type	Area [m²]
KIT/FAM/MEALS	Kitchen/Living	60.98
WIP	Daytime	8.6
BED 3	Bedroom	13.69
BATH	Unconditioned	7.96
WC	Daytime	1.53
PDR	Daytime	2.31
BED 2	Bedroom	13.68
BED 1 RAKED	Bedroom	18.21
BED 1 FLAT C	Bedroom	8.57
WIR BED 1	Nighttime	7.74
ENS BED 1	Nighttime	14.15
ENS WC BED 1	Nighttime	1.81
MEDIA	Living	17.01
ENTRY/HALL	Daytime	28.55
STUDY	Bedroom	9.05
OFFICE	Bedroom	12.8
BED 4	Bedroom	13.07
LAUNDRY	Unconditioned	6.07
WIL	Daytime	5.39
MUD	Unconditioned	6.85
MUSIC ROOM	Bedroom	23.25
GARAGE	Garage	51.77

### Window and glazed door type and performance

Default windows\*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges			
	Description	U-value*	31130 -	SHGC lower limit	SHGC upper limit		
No Data Available							



#### Custom windows\*

Window ID	Window	Maximum	01100*	Substitution tolerance ranges		
window iD	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
BRD-035-	Aluminium Sliding Door DG GW	2.6	0.61	0.58	0.64	
304	4Clr/16Ar/4I89Layers3&4					
BRD-086-	Aluminium Fixed Window DG GW	2.5	0.63	0.60	0.66	
302	4Clr/16Ar/4I89Layers3&4	2.0	0.00	0.00	0.00	
BRD-154-	Aluminium Sliding Window DG GW	2.0	0.58	0.55	0.61	
304	4Clr/16Ar/4I89Layers3&4	2.9	0.56	0.55	0.61	
BRD-001-	Aluminium Cliding Window CC 4FA	4.6	0.63	0.60	0.66	
013	Aluminium Sliding Window SG 4EA	4.0	0.03	0.60	0.00	
BRD-080-	Aluminium Double Hung Window DG	4.0	0.52	0.49	0.55	
800	4EA/6Ar/4CIr	4.0	0.32	0.49	0.55	
BRD-066-	Aluminium Sliding Window DG LoEClr	3.2	0.54	0.54	0.50	
043	4/10/4	3.2	0.54	0.51	0.56	
BRD-074-	Aluminium Fixed Window DG LoEClr	2.0	0.50	0.55	0.60	
058	4/12/4	2.8	0.58	0.55	0.60	
BRD-024-	Aluminium Double Hung Window SG	6.3	0.75	0.71	0.70	
001	3Clr	6.3	0.75	0.71	0.78	

## Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
KIT/FAM/MEALS	BRD-035-304-002	W12	2400	4200	Sliding	45	S	No
KIT/FAM/MEALS	BRD-086-302-003	W29	700	3200	Fixed	00	S	No
KIT/FAM/MEALS	BRD-035-304-002	W13	2400	4200	Sliding	45	S	No
KIT/FAM/MEALS	BRD-086-302-003	W30	700	3200	Fixed	00	S	No
KIT/FAM/MEALS	BRD-035-304-002	W14	2400	2400	Sliding	45	S	No
KIT/FAM/MEALS	BRD-086-302-003	W31	700	2400	Fixed	00	S	No
KIT/FAM/MEALS	BRD-035-304-002	W7	2400	2400	Sliding	45	N	No
KIT/FAM/MEALS	BRD-154-304-002	W10	2400	1200	Sliding	30	E	No
KIT/FAM/MEALS	BRD-154-304-002	W11	2400	1200	Sliding	30	E	No
KIT/FAM/MEALS	BRD-086-302-003	W28	700	1200	Fixed	00	E	No
WIP	BRD-154-304-002	W15	1200	900	Sliding	45	S	No
BED 3	BRD-035-304-002	W16	2400	2400	Sliding	45	S	No
BATH	BRD-001-013-001	W17	1200	1500	Sliding	45	S	No
BED 2	BRD-035-304-002	W18	2400	2400	Sliding	45	S	No
BED 1 RAKED	BRD-080-008-001	W19	2100	600	Double Hung	45	S	No
BED 1 RAKED	BRD-035-304-002	W20	2400	3000	Sliding	45	S	No

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Location	Window ID	Window no.	Height [mm]		Window type	Opening %	Orientation	Window shading device*
BED 1 RAKED	BRD-080-008-001	W21	2100	600	Double Hung	45	S	No
BED 1 RAKED	BRD-086-302-003	W32	700	3000	Fixed	00	S	No
BED 1 FLAT C	BRD-066-043-001	W8	600	600	Sliding	45	N	No
ENS BED 1	BRD-066-043-001	W22	1200	1800	Sliding	45	S	No
ENS BED 1	BRD-066-043-001	W24	900	900	Sliding	45	W	No
ENS BED 1	BRD-066-043-001	W25	900	900	Sliding	45	W	No
ENS WC BED 1	BRD-066-043-001	W26	900	600	Sliding	45	W	No
MEDIA	BRD-080-008-001	W5	1800	900	Double Hung	45	N	No
MEDIA	BRD-080-008-001	W6	1800	900	Double Hung	45	N	No
ENTRY/HALL	BRD-074-058-001	SL1	2100	350	Fixed	00	N	No
ENTRY/HALL	BRD-074-058-001	SL2	2100	350	Fixed	00	N	No
ENTRY/HALL	BRD-074-058-001	HL	300	1900	Fixed	00	N	No
STUDY	BRD-080-008-001	W4	1800	900	Double Hung	45	N	No
OFFICE	BRD-066-043-001	W2	600	2400	Sliding	45	N	No
OFFICE	BRD-066-043-001	W3	600	2400	Sliding	45	N	No
BED 4	BRD-080-008-001	W1	1800	900	Double Hung	45	N	No
MUD	BRD-080-008-001	W9	1800	900	Double Hung	45	E	No
MUSIC ROOM	BRD-066-043-001	W23	1800	1800	Sliding	30	S	No
MUSIC ROOM	BRD-080-008-001	W27	1800	900	Double Hung	45	W	No
GARAGE	BRD-024-001-001	GARAGE DH1	1800	900	Double Hung	45	N	No
GARAGE	BRD-024-001-001	GARAGE DH2	1800	900	Double Hung	45	N	No

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### Roof window\* type and performance value

Default roof windows\*

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

Custom roof windows\*

Window ID	Window	Maximum	CHCC*	Substitution tolerance ranges		
window iD	Description	U-value*	SHGC*	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
NI- D-t- Assil-Isla		

No Data Available

### Skylight\* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area Orientation [m <sup>2</sup> ]	Outdoor shade	Diffuser

No Data Available

#### External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
ENTRY/HALL	2100	1200	90	N
LAUNDRY	2100	820	90	W
GARAGE	2100	820	90	W
GARAGE	2100	5000	90	E

### External wall type

Wall ID	Wall type	Solar absorptance	 Bulk insulation [R-value]	Reflective wall wrap*
EW-1	Timber Stud Frame Brick Veneer	0.50	Bulk Insulation, Air Gap R2.7	No
EW-2	Fibro Timber Stud Frame Panel Direct Fix	0.50	Bulk Insulation R2.7	No
EW-3	Timber Stud Frame Brick Veneer	0.50	No insulation	No
EW-4	Cavity Brick	0.50	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]
KIT/FAM/MEALS	EW-1	3000	4350	S	0	No
KIT/FAM/MEALS	EW-2	900	4350	S	3000	No

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Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
KIT/FAM/MEALS	EW-1	3000	5350	S	0	No
KIT/FAM/MEALS	EW-2	901	5350	S	5100	No
KIT/FAM/MEALS	EW-1	3000	2445	S	0	No
KIT/FAM/MEALS	EW-2	900	2445	S	3000	No
KIT/FAM/MEALS	EW-1	2700	4500	N	600	No
KIT/FAM/MEALS	EW-1	2440	5050	Е	0	No
KIT/FAM/MEALS	EW-2	860	5050	E	450	No
WIP	EW-1	3000	1995	S	0	Yes
WIP	EW-2	850	1995	S	3000	No
WIP	EW-1	3000	700	W	0	No
WIP	EW-2	800	700	W	18050.0173130111	No
BED 3	EW-1	2700	3240	S	600	Yes
BATH	EW-1	2700	2940	S	600	Yes
BED 2	EW-1	2700	3240	S	600	No
BED 1 RAKED	EW-1	2785	5595	S	0	No
BED 1 RAKED	EW-2	715	5595	S	450	No
BED 1 RAKED	EW-1	2785	3300	Е	0	No
BED 1 RAKED	EW-2	215	3300	E	450	No
BED 1 FLAT C	EW-1	2700	990	N	600	Yes
WIR BED 1	EW-1	2700	595	N	15250	No
ENS BED 1	EW-1	2700	2545	S	450	No
ENS BED 1	EW-1	2700	5345	W	450	No
ENS BED 1	EW-1	2700	740	N	600	No
ENS WC BED 1	EW-1	2700	1045	W	450	No
ENS WC BED 1	EW-1	2700	1795	N	600	No
MEDIA	EW-2	2700	550	W	0	No
MEDIA	EW-2	2701	650	N	1850	No
MEDIA	EW-2	2700	3650	N	600	No
MEDIA	EW-2	2700	4095	E	450	No
ENTRY/HALL	EW-1	2700	2990	N	2400	No
STUDY	EW-2	2700	2395	N	600	Yes

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Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]	
STUDY	EW-2	2701	650	N	1850	No	
STUDY	EW-2	2700	550	E	7750	No	
OFFICE	EW-2	2700	4290	N	600	Yes	
BED 4	EW-2	2700	4390	N	600	No	
LAUNDRY	EW-1	2700	2340	W	600	No	
WIL	EW-1	2700	2040	W	600	No	
MUD	EW-1	2700	2945	E	450	No	
MUSIC ROOM	EW-1	3000	4000	S	450	No	
MUSIC ROOM	EW-1	2700	3895	W	600	No	
GARAGE	EW-3	2850	6495	W	600	No	
GARAGE	EW-3	2850	8050	N	450	No	
GARAGE	EW-4	2850	6495	E	450	No	

### Internal wall type

Wall ID	Wall type	Area [m <sup>2</sup> ]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	236.45	No insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	56.57	Bulk Insulation, No Air Gap R2.5
IW-003	Timber Stud Frame, Direct Fix Plasterboard	16.61	Bulk Insulation, No Air Gap R2.7

### Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
KIT/FAM/MEALS	Waffle pod slab 300 mm 100mm	60.98	None	Waffle Pod 300mm	Ceramic Tiles 8mm
WIP	Waffle pod slab 300 mm 100mm	8.60	None	Waffle Pod 300mm	Ceramic Tiles 8mm
BED 3	Waffle pod slab 300 mm 100mm	13.69	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
BATH	Waffle pod slab 300 mm 100mm	7.96	None	Waffle Pod 300mm	Ceramic Tiles 8mm
WC	Waffle pod slab 300 mm 100mm	1.53	None	Waffle Pod 300mm	Ceramic Tiles 8mm
PDR	Waffle pod slab 300 mm 100mm	2.31	None	Waffle Pod 300mm	Ceramic Tiles 8mm
BED 2	Waffle pod slab 300 mm 100mm	13.68	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
BED 1 RAKED	Waffle pod slab 300 mm 100mm	18.21	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
BED 1 FLAT C	Waffle pod slab 300 mm 100mm	8.57	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
WIR BED 1	Waffle pod slab 300 mm 100mm	7.74	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
ENS BED 1	Waffle pod slab 300 mm 100mm	14.15	None	Waffle Pod 300mm	Ceramic Tiles 8mm
ENS WC BED 1	Waffle pod slab 300 mm 100mm	1.81	None	Waffle Pod 300mm	Ceramic Tiles 8mm
MEDIA	Waffle pod slab 300 mm 100mm	17.01	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
ENTRY/HALL	Waffle pod slab 300 mm 100mm	28.55	None	Waffle Pod 300mm	Ceramic Tiles 8mm
STUDY	Waffle pod slab 300 mm 100mm	9.05	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
OFFICE	Waffle pod slab 300 mm 100mm	12.80	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
BED 4	Waffle pod slab 300 mm 100mm	13.07	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
LAUNDRY	Waffle pod slab 300 mm 100mm	6.07	None	Waffle Pod 300mm	Ceramic Tiles 8mm
WIL	Waffle pod slab 300 mm 100mm	5.39	None	Waffle Pod 300mm	Ceramic Tiles 8mm
MUD	Waffle pod slab 300 mm 100mm	6.85	None	Waffle Pod 300mm	Ceramic Tiles 8mm
MUSIC ROOM	Waffle pod slab 300 mm 100mm	23.25	None	Waffle Pod 300mm	Carpet+Rubber Underlay 18mm
GARAGE	Waffle pod slab 300 mm 100mm	51.77	None	Waffle Pod 300mm	Bare

### Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
KIT/FAM/MEALS	Plasterboard on Timber	Bulk Insulation R6	
WIP	Plasterboard on Timber	Bulk Insulation R6	
BED 3	Plasterboard on Timber	Bulk Insulation R6	
BED 3	Plasterboard on Timber	Bulk Insulation R3	
BATH	Plasterboard on Timber	Bulk Insulation R6	
BATH	Plasterboard on Timber	Bulk Insulation R3	
WC	Plasterboard on Timber	Bulk Insulation R6	
PDR	Plasterboard on Timber	Bulk Insulation R6	

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Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
BED 2	Plasterboard on Timber	Bulk Insulation R6	
BED 2	Plasterboard on Timber	Bulk Insulation R3	
BED 1 RAKED	Plasterboard on Timber	Bulk Insulation R6	
BED 1 FLAT C	Plasterboard on Timber	Bulk Insulation R6	
BED 1 FLAT C	Plasterboard on Timber	Bulk Insulation R3	
WIR BED 1	Plasterboard on Timber	Bulk Insulation R6	
WIR BED 1	Plasterboard on Timber	Bulk Insulation R3	
ENS BED 1	Plasterboard on Timber	Bulk Insulation R6	
ENS WC BED 1	Plasterboard on Timber	Bulk Insulation R6	
ENS WC BED 1	Plasterboard on Timber	Bulk Insulation R3	
MEDIA	Plasterboard on Timber	Bulk Insulation R6	
MEDIA	Plasterboard on Timber	Bulk Insulation R3	
ENTRY/HALL	Plasterboard on Timber	Bulk Insulation R6	
STUDY	Plasterboard on Timber	Bulk Insulation R6	
STUDY	Plasterboard on Timber	Bulk Insulation R3	
OFFICE	Plasterboard on Timber	Bulk Insulation R6	
OFFICE	Plasterboard on Timber	Bulk Insulation R3	
BED 4	Plasterboard on Timber	Bulk Insulation R6	
BED 4	Plasterboard on Timber	Bulk Insulation R3	
LAUNDRY	Plasterboard on Timber	Bulk Insulation R6	
LAUNDRY	Plasterboard on Timber	Bulk Insulation R3	
WIL	Plasterboard on Timber	Bulk Insulation R6	
WIL	Plasterboard on Timber	Bulk Insulation R3	
MUD	Plasterboard on Timber	Bulk Insulation R6	
MUSIC ROOM	Plasterboard on Timber	Bulk Insulation R6	
MUSIC ROOM	Plasterboard on Timber	Bulk Insulation R3	
GARAGE	Plasterboard on Timber	No insulation	

## Ceiling penetrations\*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
KIT/FAM/MEALS	12	Downlights - LED	0	Sealed
KIT/FAM/MEALS	1	Exhaust Fans	250	Sealed

0011790847 NatHERS Certificate 7 Star Rating as of 18 Mar 2025		Star Rating as of 18 Mar 2025			HOUSE
Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	
WIP	2	Downlights - LED	0	Sealed	
BED 3	4	Downlights - LED	0	Sealed	
BATH	2	Downlights - LED	0	Sealed	
BATH	1	Exhaust Fans	300	Sealed	
WC	1	Downlights - LED	0	Sealed	
WC	1	Exhaust Fans	300	Sealed	
PDR	1	Downlights - LED	0	Sealed	
BED 2	4	Downlights - LED	0	Sealed	
BED 1 RAKED	4	Downlights - LED	0	Sealed	
BED 1 FLAT C	2	Downlights - LED	0	Sealed	
WIR BED 1	2	Downlights - LED	0	Sealed	
ENS BED 1	3	Downlights - LED	0	Sealed	
ENS BED 1	1	Exhaust Fans	300	Sealed	
ENS WC BED 1	1	Downlights - LED	0	Sealed	
MEDIA	4	Downlights - LED	0	Sealed	
ENTRY/HALL	6	Downlights - LED	0	Sealed	
STUDY	2	Downlights - LED	0	Sealed	
OFFICE	4	Downlights - LED	0	Sealed	
BED 4	4	Downlights - LED	0	Sealed	
LAUNDRY	2	Downlights - LED	0	Sealed	
LAUNDRY	1	Exhaust Fans	300	Sealed	
WIL	1	Downlights - LED	0	Sealed	
MUD	2	Downlights - LED	0	Sealed	
MUSIC ROOM	5	Downlights - LED	0	Sealed	

### Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

## Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade
Corrugated Iron Timber Frame	Foil, Gap Above, Reflective Side Down, Anti-glare Up	0.50	Medium



### Thermal bridging schedule for steel frame elements

Building element Steel section dimensions 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.

#### Cooling system

Appliance/ system type	Location	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available				_

#### Heating system

Appliance/ system type	Location	Fuel type	efficiency/ performance	Recommended capacity
No Data Available				

#### Hot water system

Appliance/ system type	Fuel type	Hot Water	Minimum efficiency	Zone 3 STC	Zone 3 Su toleranc		Assessed daily load
		CER Zone	/STC	310	lower limit	upper limit	[litres]

No Data Available

#### Pool/spa equipment

Appliance/ system type	Fuel type	Minimum efficiency/ performance	Recommended capacity
No Data Available			_

### Onsite Renewable Energy Schedule

System Type	Orientation	System Size Or Generation Capacity
No Data Available		



### **Battery** Schedule

System Type Size [Battery 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.
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 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	) 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)	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