Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0GURRN1FB0

Generated on 8 Apr 2025 using FirstRate5: 5.5.5a (3.22)

Property

Address 31 Ralston Road,

Palm Beach, NSW, 2108

Lot/DP 15/4/DP14048 **NCC Class*** Class 1a

Floor/all Floors

Type New Home

Plans

Main plan A. DA. 21/3/2025 Prepared by Beaches Group

Construction and environment

Assessed floor area [m²]* Exposure type
Conditioned* 322.9 suburban

Unconditioned* 68.9 NatHERS climate zone

Total 391.8 56 Mascot AMO

Garage 40.5



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 Accreditation No.
 DMN/17/1795

Assessor Accrediting Organisation

Design Matters National

Declaration of interest No

NCC Requirements

NCC provisions Volume 2 State/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



Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	17.6	12.3
Load limits	N/A	N/A

Features determining load limits

Floor type	N/A
(lowest conditioned area)	
NCC climate zone 1 or 2	N/A
Outdoor living area	N/A
Outdoor living area ceiling fan	N/A

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 https://w ww.fr5.com.au/QRCodeLand ing?PublicId=0GURRN1FB0 When using either link, ensure you are visiting www.fr5.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.

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 NatHERS heating and cooling load limits Standard 2022 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

Νo

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.

Predicted Whole of Home annual impact by appliance

Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar

Energy use:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

Certificate check	Approval	stage	Construct stage	tion	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked. Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
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 high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?					

	Approval	stage	Construct stage	tion				
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	in the Na	tHERS a	ssessme	nt)				
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		I		I				
Does the dwelling meet the NCC requirements for Building Sealing?								
Whole of Home performance check (not applicable if a Whole of Home performance assessment is not conducted)								
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 Nath	ERS asse	essment)						
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	1	1		1	1			
Note: This Certificate only covers the energy efficiency requirements in the NCC. A include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.								

Additional notes

Room schedule

Room	Zone Type	Area [m²]
Bedroom 6	bedroom	35.4
Ensuite	nightTime	5.9
Stairs	dayTime	6.2
Garage	garage	40.5
Bedroom 4	bedroom	20.2
Bedroom 5	bedroom	20
Pantry	dayTime	6.3
Hallway	dayTime	12.2
Dining	dayTime	41.1
Kitchen/Living	kitchen	75.6
Laundry	unconditioned	9.7
Bath 1	unconditioned	10.2
WC	dayTime	3
Lift 1	dayTime	2
Master Bedroom	bedroom	17.6
Bedroom 2	bedroom	14.7
Bedroom 3	bedroom	17.1
WIR	nightTime	7.8
Storage	dayTime	2.2
Sitting	living	39.3
Ensuite	nightTime	8.3
Bath 2	unconditioned	8.5
Lift 2	dayTime	2

Window and glazed door type and performance

Default* windows

				Substitution tolerance range		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
ATB-006-04 B	Al Thermally Broken B DG Argon Fill Low Solar Gain low-E -Clear	3	0.26	0.25	0.27	
ATB-006-03 B	Al Thermally Broken B DG Argon Fill High Solar Gain low-E -Clear	2.9	0.51	0.48	0.54	
TIM-002-01 W	Timber B SG Clear	5.4	0.63	0.6	0.66	
TIM-006-01 W	Timber B DG Argon Fill Clear-Clear	2.6	0.53	0.5	0.56	
TIM-003-03 W	Timber A DG Air Fill High Solar Gain low-E -Clear	2.3	0.26	0.25	0.27	

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TIM-005-01 W Timber A DG Argon Fill Clear-Clear 2.6 0.5 0.48 0.53

Custom* windows

Substitution tolerance ranges

Maximum
U-value* SHGC*
SHGC lower limit SHGC upper limit

No Data Available

Window ID

Window and glazed door schedule

Window description

			Height	Width				Window shading
Location	Window ID	Window no.	[mm]	[mm]	Window type	Opening %	Orientation	device*
Bedroom 6	ATB-006-04 B	W102	900	1200	sliding	45.0	N	No
Bedroom 6	ATB-006-04 B	W101	2100	4050	sliding	60.0	N	No
Ensuite	ATB-006-03 B	W103	600	1200	sliding	45.0	W	No
Garage	TIM-002-01 W	W209	1200	3200	double_hung	16.8	S	No
Bedroom 4	ATB-006-04 B	W212	1200	2400	sliding	45.0	E	No
Bedroom 5	TIM-006-01 W	W205	1200	3000	double_hung	16.8	S	No
Bedroom 5	TIM-006-01 W	W206	1200	1200	double_hung	45.0	E	No
Pantry	ATB-006-04 B	W204	2000	600	double_hung	45.0	W	No
Hallway	ATB-006-03 B	W211	2000	600	double_hung	45.0	E	No
Dining	ATB-006-03 B	W202	2400	3400	sliding	45.0	W	No
Dining	ATB-006-03 B	W201	2200	4600	fixed	0.0	N	No
Kitchen/Living	ATB-006-04 B	W203	2400	6200	sliding	45.0	N	No
Kitchen/Living	TIM-003-03 W	W207 glazing	1400	1600	casement	90.0	S	No
Laundry	ATB-006-03 B	W210	1200	1200	sliding	45.0	E	No
Bath 1	ATB-006-03 B	W208	1200	1200	double_hung	45.0	W	No
Master Bedroom	ATB-006-04 B	W305	600	2400	sliding	10.0	W	No
Master Bedroom	ATB-006-04 B	W304	2100	2800	sliding	45.0	N	No
Bedroom 2	ATB-006-03 B	W302	1100	2400	sliding	10.0	W	No
Bedroom 2	ATB-006-03 B	W301	2100	2800	sliding	45.0	N	No
Bedroom 3	TIM-005-01 W	W310c	2100	1600	casement	90.0	S	No
Bedroom 3	TIM-006-01 W	W310a	2100	600	double_hung	45.0	S	No
Bedroom 3	TIM-006-01 W	W310b	2100	600	double_hung	45.0	S	No
Bedroom 3	TIM-006-01 W	W309	1100	2400	double_hung	5.0	W	No
WIR	TIM-006-01 W	W307	1100	600	double_hung	45.0	S	No
Sitting	ATB-006-03 B	W311	1500	600	double_hung	45.0	E	No
Sitting	ATB-006-03 B	W313	1500	600	double_hung	45.0	E	No
Sitting	ATB-006-03 B	W303	2100	2800	sliding	45.0	N	No
Sitting	TIM-006-01 W	W308	1100	1600	double_hung	45.0	S	No
Ensuite	TIM-006-01 W	W306	1100	600	double_hung	45.0	S	No
Bath 2	ATB-006-03 B	W312	900	600	double_hung	45.0	E	No

Roof window* type and performance value

Default* roof windows

Window ID Window description U-value* SHGC* Substitution tolerance ranges

SHGC lower limit SHGC upper limit

Custom* roof windows

Window ID Window description U-value* SHGC* Substitution tolerance ranges

SHGC lower limit SHGC upper limit

SHGC upper limit

Roof window* schedule

 Location
 Window ID
 Window no.
 %
 [m²]
 [mm]
 Orientation
 shade

 No Data Available

Skylight* type and performance

 Skylight ID
 Skylight description
 Skylight shaft reflectance

 No Data Available

Skylight* schedule

Skylight shaft Area Orient- Outdoor

Location Skylight ID Skylight No. length [mm] [m²] ation shade Diffuser

No Data

Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2400	5500	100.0	W	
Garage	2400	900	100.0	S	
Kitchen/Living	1000	1600	100.0	S	

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	[R-value]	Reflective wall wrap*
1	BV - RenBrick Veneer+ R3.6	0.2	Light	Polystyrene expanded (k = 0.039) (R3.6)	No
2	RW - Earth Retaining Wall + R3	0.2	Light	Polystyrene extruded: R3.0 (R3.0)	No
3	WBRD - WeatherboardR1.0	0.2	Light	Glass fibre batt: R1.0 (R1.0)	No
4	WBRD - Weatherboard R3.6	0.2	Light	Polystyrene expanded (k = 0.039) (R3.6)	No

External wall schedule

		Height	Width		Horizontal shading feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]		projection [mm]	feature* (yes/no)
Bedroom 6	1	2450	8119	N	511	Yes
Bedroom 6	1	1850	4359	W	988	Yes
Bedroom 6	2	600	4359	W	0	No
Ensuite	1	1800	1560	W	0	Yes
Ensuite	2	600	1560	W	0	No
Stairs	1	2450	1044	E	0	Yes
Stairs	1	2450	5967	N	0	Yes
Garage	3	3000	7144	W	629	Yes
Garage	3	3000	5855	S	622	Yes
Garage	3	3000	6539	E	611	Yes
Bedroom 4	4	2700	5496	E	578	Yes
Bedroom 5	4	2700	3990	W	564	Yes
Bedroom 5	4	2700	4903	S	568	No
Bedroom 5	4	2700	3904	E	573	Yes
Pantry	4	2700	1694	W	563	Yes
Hallway	4	2700	1293	E	580	Yes
Dining	4	2700	4556	W	580	Yes
Dining	4	2700	6732	E	579	Yes
Dining	4	2700	5895	N	567	Yes
Kitchen/Living	4	2700	8223	N	1581	Yes
Kitchen/Living	4	2700	7791	W	563	Yes
Kitchen/Living	4	2700	3199	S	1578	Yes
Laundry	4	2700	4398	E	580	Yes
Bath 1	4	2700	2084	W	581	Yes
WC	4	2700	1106	W	578	Yes
Master Bedroom	4	2500	3798	W	581	Yes
Master Bedroom	4	2500	4617	N	585	Yes
Bedroom 2	4	2500	3771	W	580	Yes
Bedroom 2	4	2500	3771	E	581	Yes
Bedroom 2	4	2500	3894	N	579	Yes
Bedroom 3	4	2500	3880	S	2577	Yes
Bedroom 3	4	2500	4399	E	602	No
Bedroom 3	4	2500	3901	W	578	Yes
WIR	4	2500	2400	S	580	Yes
Storage	4	2500	1405	E	581	Yes
		-				



Sitting	4	2500	1291	Е	584	Yes
Sitting	4	2500	1101	Е	580	Yes
Sitting	4	2500	3586	N	581	Yes
Sitting	4	2500	3477	S	581	Yes
Ensuite	4	2500	3588	W	597	Yes
Ensuite	4	2200	2095	S	580	Yes
Bath 2	4	2500	2779	E	604	Yes

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	BV - Brick Veneer + R3.6	31.5	Polystyrene expanded (k = 0.039) (R3.6)
2	Int - Internal Stud Wall - R2.5F	83.1	Glass fibre batt: R2.5 (R2.5)
3	BV - Brick Veneer + R3.6	14.6	Polystyrene expanded (k = 0.039) (R3.6)
4	FR5 - Internal Plasterboard Stud Wall	149.6	
5	Concrete - Cast ConcreteR2.0	31.2	Glass fibre batt: R2.0 (R2.0)
6	W2R - WALL TO ROOF + R3.0	0.4	Glass fibre batt: R3.0 (R3.0)

Floor type

<i>y</i> ₁			Sub-floor	Added insulation	
Location	Construction	Area [m²]	ventilation	[R-value]	Covering
Bedroom 6	CSOG - Concrete Slab on Ground R2.0	35.4	Enclosed	R2.0	Timber
Ensuite	CSOG - Concrete Slab on Ground R2.0	5.9	Enclosed	R2.0	Tiles
Stairs	CSOG - Concrete Slab on Ground R2.0	6.2	Enclosed	R2.0	Timber
Garage	FR5 - CSOG: Slab on Ground	38.9	Enclosed	R0.0	none
Garage	FR5 - CSOG: Slab on Ground	1.5	Enclosed	R0.0	none
Bedroom 4	TIMSUBR - Timber Sub-Floor R3.0	2.8	Enclosed Disconnected	R3.0	Timber
Bedroom 4	TIMSUBR - Timber Sub-Floor R3.0	2.1	Enclosed Disconnected	R3.0	Timber
Bedroom 4	TIMSUBR - Timber Sub-Floor R3.0	15.3	Enclosed Disconnected	R3.0	Timber
Bedroom 5	TIMSUBR - Timber Sub-Floor R3.0	4.9	Enclosed Disconnected	R3.0	Timber
Bedroom 5	TIMSUBR - Timber Sub-Floor R3.0	13.5	Enclosed Disconnected	R3.0	Timber
Bedroom 5	TIMSUBR - Timber Sub-Floor R3.0	1.4	Enclosed Disconnected	R3.0	Timber
Bedroom 5	TIMSUBR - Timber Sub-Floor R3.0	0.1	Enclosed Disconnected	R3.0	Timber

NATIONWIDE HOUSE	

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Bedroom 5	TIMSUBR - Timber Sub-Floor R3.0	0.1	Enclosed Disconnected	R3.0	Timber
Pantry	TIMSUBR - Timber Sub-Floor R3.0	4.8	Enclosed Disconnected	R3.0	Timber
Pantry	TIMSUBR - Timber Sub-Floor R3.0	0.8	Enclosed Disconnected	R3.0	Timber
Pantry	TIMSUBR - Timber Sub-Floor R3.0	0.7	Enclosed Disconnected	R3.0	Timber
Hallway	TIMSUBR - Timber Sub-Floor R3.0	0.6	Enclosed Disconnected	R3.0	Timber
Hallway	TIMSUBR - Timber Sub-Floor R3.0	0.5	Enclosed Disconnected	R3.0	Timber
Hallway	TIMSUBR - Timber Sub-Floor R3.0	11.1	Enclosed Disconnected	R3.0	Timber
Dining	TIMSUBR - Timber Sub-Floor R3.0	16	Enclosed Disconnected	R3.0	Timber
Dining	TIMSUBR - Timber Sub-Floor R3.0	2.8	Enclosed Disconnected	R3.0	Timber
Dining	TIMSUBR - Timber Sub-Floor R3.0	12.9	Enclosed Disconnected	R3.0	Timber
Dining	TIMSUBR - Timber Sub-Floor R3.0	0.8	Enclosed Disconnected	R3.0	Timber
Dining	TIMSUBR - Timber Sub-Floor R3.0	3.5	Enclosed Disconnected	R3.0	Timber
Dining	TIMSUBR - Timber Sub-Floor R3.0	3.7	Enclosed Disconnected	R3.0	Timber
Dining	TIMSUBR - Timber Sub-Floor R3.0	1.3	Enclosed Disconnected	R3.0	Timber
Kitchen/Living	TIMSUBR - Timber Sub-Floor R3.0	5.8	Enclosed Disconnected	R3.0	Timber
Kitchen/Living	TIMSUBR - Timber Sub-Floor R3.0	0.9	Enclosed Disconnected	R3.0	Timber
Kitchen/Living	TIMSUBR - Timber Sub-Floor R3.0	52.7	Enclosed Disconnected	R3.0	Timber
Kitchen/Living	TIMSUBR - Timber Sub-Floor R3.0	3	Enclosed Disconnected	R3.0	Timber
Kitchen/Living	TIMSUBR - Timber Sub-Floor R3.0	13.2	Enclosed Disconnected	R3.0	Timber
Laundry	TIMSUBR - Timber Sub-Floor R3.0	4.9	Enclosed Disconnected	R3.0	Tiles
Laundry	TIMSUBR - Timber Sub-Floor R3.0	1.9	Enclosed Disconnected	R3.0	Tiles
Laundry	TIMSUBR - Timber Sub-Floor R3.0	1.5	Enclosed Disconnected	R3.0	Tiles
	TIMSUBR - Timber	0.3	Enclosed	R3.0	Tiles



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Laundry	TIMSUBR - Timber Sub-Floor R3.0	0.3	Enclosed Disconnected	R3.0	Tiles
Laundry	TIMSUBR - Timber Sub-Floor R3.0	0.8	Enclosed Disconnected	R3.0	Tiles
Bath 1	TIMSUBR - Timber Sub-Floor R3.0	1	Enclosed Disconnected	R3.0	Tiles
Bath 1	TIMSUBR - Timber Sub-Floor R3.0	0.8	Enclosed Disconnected	R3.0	Tiles
Bath 1	TIMSUBR - Timber Sub-Floor R3.0	1.1	Enclosed Disconnected	R3.0	Tiles
Bath 1	TIMSUBR - Timber Sub-Floor R3.0	7.4	Enclosed Disconnected	R3.0	Tiles
WC	TIMSUBR - Timber Sub-Floor R3.0	1.2	Enclosed Disconnected	R3.0	Tiles
WC	TIMSUBR - Timber Sub-Floor R3.0	0.8	Enclosed Disconnected	R3.0	Tiles
WC	TIMSUBR - Timber Sub-Floor R3.0	0.9	Enclosed Disconnected	R3.0	Tiles
Lift 1	TIMSUBR - Timber Sub-Floor R3.0	2	Enclosed Disconnected	R3.0	Timber (Mountain ash)
Master Bedroom	TMBR - Timber LinedR1.5	13.7	Enclosed	R1.5	Timber
Master Bedroom	TMBR - Timber LinedR1.5	3.9	Enclosed	R1.5	Timber
Bedroom 2	TMBR - Timber LinedR1.5	9.5	Enclosed	R1.5	Timber
Bedroom 2	TMBR - Timber LinedR1.5	5.2	Enclosed	R1.5	Timber
Bedroom 3	TMBR - Timber LinedR1.5	1.1	Enclosed	R1.5	Timber
Bedroom 3	TMBR - Timber LinedR1.5	11.6	Enclosed	R1.5	Timber
Bedroom 3	TMBR - Timber LinedR1.5	2.1	Enclosed	R1.5	Timber
Bedroom 3	TMBR - Timber LinedR1.5	1.9	Enclosed	R1.5	Timber
Bedroom 3	TMBR - Timber LinedR1.5	0.3	Enclosed	R1.5	Timber
WIR	TMBR - Timber LinedR1.5	1.2	Enclosed	R1.5	Timber
WIR	TMBR - Timber LinedR1.5	6.6	Enclosed	R1.5	Timber
Storage	TMBR - Timber LinedR1.5	0.7	Enclosed	R1.5	Timber
Storage	TMBR - Timber LinedR1.5	1.5	Enclosed	R1.5	Timber
Sitting	TMBR - Timber LinedR1.5	34.3	Enclosed	R1.5	Timber
Sitting	TMBR - Timber LinedR1.5	2	Enclosed	R1.5	Timber
Sitting	TMBR - Timber LinedR1.5	0.5	Enclosed	R1.5	Timber
Sitting	TMBR - Timber LinedR1.5	0.6	Enclosed	R1.5	Timber
Sitting	TMBR - Timber LinedR1.5	1.7	Enclosed	R1.5	Timber
Ensuite	TMBR - Timber LinedR1.5	5.7	Enclosed	R1.5	Tiles
Ensuite	TMBR - Timber LinedR1.5	2.5	Enclosed	R1.5	Tiles
		7.0	England	R1.5	Tiles
Bath 2	TMBR - Timber LinedR1.5	7.2	Enclosed	K1.5	11163



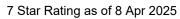
Lift 2 TMBR - Timber LinedR1.5 2 Enclosed R1.5 Timber (Mountain ash)

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Bedroom 6	Plasterboard	R3.0	Yes
Ensuite	TIMSUBR - Timber Sub-Floor R3.0	R3.0	No
Stairs	TIMSUBR - Timber Sub-Floor R3.0	R3.0	No
Garage	Plasterboard	R0.0	Yes
Garage	TMBR - Timber LinedR1.5	R1.5	No
Bedroom 4	Plasterboard	R2.0	Yes
Bedroom 4	Plasterboard	R5.0	Yes
Bedroom 4	TMBR - Timber LinedR1.5	R1.5	No
Bedroom 5	Plasterboard	R2.0	Yes
Bedroom 5	Plasterboard	R5.0	Yes
Bedroom 5	TMBR - Timber LinedR1.5	R1.5	No
Pantry	TMBR - Timber LinedR1.5	R1.5	No
Pantry	Plasterboard	R2.0	Yes
Pantry	Plasterboard	R5.0	Yes
Hallway	Plasterboard	R2.0	Yes
Hallway	Plasterboard	R5.0	Yes
Hallway	TMBR - Timber LinedR1.5	R1.5	No
Dining	TMBR - Timber LinedR1.5	R1.5	No
Dining	Plasterboard	R2.0	Yes
Dining	Plasterboard	R5.0	Yes
Dining	Plasterboard	R2.0	Yes
Dining	Plasterboard	R5.0	Yes
Dining	Plasterboard	R2.0	Yes
Dining	TMBR - Timber LinedR1.5	R1.5	No
Kitchen/Living	Plasterboard	R5.0	Yes
Kitchen/Living	Plasterboard	R2.0	Yes
Kitchen/Living	TMBR - Timber LinedR1.5	R1.5	No



Kitchen/Living	Plasterboard	R2.0	Yes
Kitchen/Living	Plasterboard	R5.0	Yes
Laundry	TMBR - Timber LinedR1.5	R1.5	No
Laundry	Plasterboard	R2.0	Yes
Laundry	Plasterboard	R5.0	Yes
Laundry	TMBR - Timber LinedR1.5	R1.5	No
Bath 1	TMBR - Timber LinedR1.5	R1.5	No
Bath 1	Plasterboard	R2.0	Yes
Bath 1	Plasterboard	R5.0	Yes
Bath 1	TMBR - Timber LinedR1.5	R1.5	No
wc	TMBR - Timber LinedR1.5	R1.5	No
WC	Plasterboard	R5.0	Yes
wc	TMBR - Timber LinedR1.5	R1.5	No
Lift 1	TMBR - Timber LinedR1.5	R1.5	No
Master Bedroom	Plasterboard	R5.0	Yes
Master Bedroom	Plasterboard	R2.0	Yes
Bedroom 2	Plasterboard	R5.0	Yes
Bedroom 2	Plasterboard	R2.0	Yes
Bedroom 3	Plasterboard	R5.0	Yes
Bedroom 3	Plasterboard	R5.0	Yes
Bedroom 3	Plasterboard	R2.0	Yes
Bedroom 3	Plasterboard	R2.0	Yes
WIR	Plasterboard	R2.0	Yes
WIR	Plasterboard	R5.0	Yes
Storage	Plasterboard	R2.0	Yes
Storage	Plasterboard	R5.0	Yes
Sitting	Plasterboard	R5.0	Yes
Sitting	Plasterboard	R2.0	Yes
Sitting	Plasterboard	R2.0	Yes
Sitting	Plasterboard	R2.0	Yes
Sitting	Plasterboard	R2.0	Yes
Ensuite	Plasterboard	R5.0	Yes
Ensuite	Plasterboard	R2.0	Yes
Bath 2	Plasterboard	R5.0	Yes



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Bath 2	Plasterboard	R2.0	Yes
Lift 2	Plasterboard	R5.0	Yes

Ceiling penetrations*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Ensuite	1	Exhaust Fans	250	250	Unsealed
Kitchen/Living	1	Heater Flues	200	300	Unsealed
Kitchen/Living	1	Exhaust Fans	250	250	Sealed
Laundry	1	Exhaust Fans	250	250	Unsealed
Bath 1	1	Exhaust Fans	250	250	Unsealed
WC	1	Exhaust Fans	250	250	Unsealed
Ensuite	1	Exhaust Fans	250	250	Sealed
Bath 2	1	Exhaust Fans	250	250	Unsealed

Ceiling fans

Location	Quantity	Diameter [mm]
Bedroom 6	1	900
Bedroom 4	1	900
Bedroom 5	1	900
Dining	1	900
Kitchen/Living	1	1200
Master Bedroom	1	900
Bedroom 2	1	900
Bedroom 3	1	900

Roof type

	Added insulatio	n		
Construction	[R-value]	Solar absorptance	Roof shade [colour]	
Framed:Flat - Flat Framed (Metal Deck)	1.3	0.64	Dark	
Cont:Attic-Continuous	1.3	0.64	Dark	

Thermal bridging schedule for steel frame elements

	Steel section dimensions		Steel thickness	Thermal break
Building element	[height x width, mm]	Frame spacing [mm]	[BMT,mm]	[R-value]

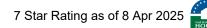
No Data Available

Appliance schedule

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

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

Cooling system



Appliance/ system type Location Fuel type Minimum efficiency/ Recommended capacity

No Whole of Home performance assessment conducted for this certificate.

Heating system

Appliance/ system type Location Fuel type performance capacity

No Whole of Home performance assessment conducted for this certificate.

Hot water system

Minimum
efficiency/ Hot Water CER Assessed daily
Appliance/ system type Fuel type performance Zone Zone 3 STC load

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

Appliance/ system type Fuel type Minimum efficiency/ Recommended capacity

No Whole of Home performance assessment conducted for this certificate.

Onsite renewable energy schedule

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

System type Orientation System size or generation capacity

No Whole of Home performance assessment conducted for this certificate.

Battery schedule

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

System type Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate.

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

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Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
AFRC	Australian Fenestration Rating Council
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.
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.
СОР	Coefficient of performance
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 ventilate corridor in a Class 2 building.
Exposure category – expose	d 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 –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category –	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
protected	
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 air gap 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.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
Skylight (also known as roof lights)	for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.

7 Star Rating as	of 8 A	pr 2025
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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 Regulatory
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, continuous thermal breaks such as polystyrene
	insulation sheeting, plastic strips or furring channels.
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	a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features*
	(eg eaves and balconies)