Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011670908

Generated on 22 Jan 2025 using BERS Pro v5.2.4 (3.23)

Property

Address 12 Molong Street,

NORTH CURL CURL, NSW, 2099

Lot/DP Lot 7 DP 224946

NCC class* 1a

Floor/all Floors G of 3 floors

Type New Home

Plans

Main plan Emma & Tom Lambert

Prepared by Action Plans

Construction and environment

Assessed floor area [m2]*

Conditioned* 354.3

Unconditioned* 19.5 Total 504.0

Garage 130.2

Exposure type

Suburban

NatHERS climate zone

56 Mascot (Sydney Airport)



Name Terry Chapman

Business name CHAPMAN ENVIRONMENTAL SERVICES

PTY LTD

Email terry@cesenergy.com.au

Phone 0414 265 292

Accreditation No. 20920
Assessor Accrediting Organisation

ABSA

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 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



NATIONWIDE HOUSE

29.3 MJ/m²

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

For more information on your dwelling's rating see: www.nathers.gov.au

Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling		
Modelled	16.1	13.2		
Load limits	N/A	N/A		

Features determining load limits

Floor Type
(lowest conditioned area)

NCC climate zone 1 or 2

Outdoor living area

Outdoor living area ceiling fan

No

Whole of Home performance rating

No Whole of Home performance rating generated for this certificate.

Verification

hstar.com.au

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate? p=PDiEDvrmP.
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.

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Certificate check	Approva	I Stage	Construe 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.	Assess	Conser	Builder	Conser	Occupa
Genuine certificate check		1	1	1	
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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Certificate check	ecked	hority/ ecked	ked	hority	Other			
Continued	or ch	t Aut	chec	t Aut	ncy/C			
	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 Home	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 assessment)								
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. Additional requirements that must also be satisfied include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.								
Additional notes								



Room schedule

Room Zone Type		Area [m²]
Garage 1	Garage	130.2
Bedroom 1	Bedroom	17.38
Bed 1 Ens	Nighttime	6.15
Powder	Daytime	4.93
Mud	Daytime	4.81
Entry	Daytime	20.92
Desk	Daytime	8.24
Flex Space	Living	17.9
Bedroom 2	Bedroom	21.32
Bed 2 Ens	Nighttime	7.53
Kitchen/Living1	Kitchen/Living	88.6
Pantry	Daytime	8.12
Ldry	Unconditioned	8.8
Sauna	Unconditioned	4.99
Living 2	Living	42.7
F Bath	Unconditioned	5.69
Bedroom 3	Bedroom	23.55
Bed 3 Ens	Nighttime	5.77
Flex 2	Bedroom	14.41
Master bed	Bedroom	36.7
Robe Hers 1	Nighttime	6.95
Robe His 1	Nighttime	6.67
Robe Hers 2	Nighttime	7
Master Ens	Nighttime	11.34
Master Sauna	Nighttime	5.05
Master WC	Nighttime	3.04



Window and glazed door type and performance

Default windows*

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

Custom windows*

Window ID	Window	Maximum SHGC*		Substitution tolerance ranges		
window iD	Description			SHGC lower limit	SHGC upper limit	
AWS-071-009	Aluminium Fixed Window DG LB Clr 4/12/4	2.7	0.51	0.48	0.53	
VAN-004-008	Aluminium Louvre Window SG 6ET	4.5	0.54	0.51	0.57	
AWS-077-314	Aluminium Sliding Door DG LB Clr 4/12/4	3.2	0.46	0.44	0.48	
AWS-060-016	Aluminium Awning Window DG LB Clr 4/12/4	4.0	0.42	0.39	0.44	
AWS-019-042	Aluminium Hinged Door DG SOLOS OE Clr 4/12Ar/4	3.2	0.41	0.39	0.43	

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Bedroom 1	AWS-071-009-001	W04	2300	1800	Fixed	00	S	No
Bedroom 1	VAN-004-008-001	W04	2300	900	Louvre	90	S	No
Bed 1 Ens	VAN-004-008-001	W05	600	1716	Louvre	90	W	No
Entry	AWS-071-009-001	D01	3000	1601	Fixed	00	S	No
Flex Space	VAN-004-008-001	W01	2250	600	Louvre	90	S	No
Flex Space	VAN-004-008-001	W02	2250	600	Louvre	90	S	No
Flex Space	AWS-071-009-001	W01	2250	1500	Fixed	00	S	No
Flex Space	AWS-071-009-001	W02	2250	1500	Fixed	00	S	No
Bedroom 2	VAN-004-008-001	W08	2099	750	Louvre	90	E	No
Bedroom 2	AWS-071-009-001	W08	2099	1950	Fixed	00	E	No
Bed 2 Ens	VAN-004-008-001	W09	1991	900	Louvre	90	E	No
Kitchen/Living1	AWS-077-314-001	D02	2660	8370	Sliding	75	N	No



Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Kitchen/Living1	AWS-060-016-001	W06	1850	2300	Awning	90	N	No
Ldry	AWS-019-042-001	D04	2400	820	Casement	90	E	No
Ldry	VAN-004-008-001	W07	1390	900	Louvre	90	Е	No
Ldry	VAN-004-008-001	W07	1390	900	Louvre	90	E	No
Ldry	AWS-071-009-001	W07	1390	900	Fixed	00	Е	No
Living 2	AWS-071-009-001	W11	2700	1613	Fixed	00	S	No
Living 2	AWS-077-314-001	D05	2660	5220	Sliding	75	S	No
Living 2	VAN-004-008-001	W12	1800	600	Louvre	90	S	No
Bedroom 3	VAN-004-008-001	W14	1700	600	Louvre	90	N	No
Bedroom 3	VAN-004-008-001	W14	1700	600	Louvre	90	N	No
Bedroom 3	AWS-071-009-001	W14	1700	2400	Fixed	00	N	No
Bed 3 Ens	VAN-004-008-001	W13	900	2132	Louvre	90	W	No
Flex 2	VAN-004-008-001	W15	1700	600	Louvre	90	N	No
Flex 2	VAN-004-008-001	W15	1700	600	Louvre	90	N	No
Flex 2	AWS-071-009-001	W15	1700	2000	Fixed	00	N	No
Master bed	VAN-004-008-001	W19	600	2100	Louvre	90	E	No
Master bed	VAN-004-008-001	W20	600	2100	Louvre	90	E	No
Master bed	VAN-004-008-001	W10	2100	600	Louvre	90	S	No
Master bed	VAN-004-008-001	W10	2100	600	Louvre	90	S	No
Master bed	AWS-071-009-001	W10	2100	2507	Fixed	00	S	No
Master Ens	VAN-004-008-001	W16	2400	780	Louvre	90	N	No
Master Ens	AWS-071-009-001	W16	2400	1485	Fixed	00	N	No
Master Sauna	VAN-004-008-001	W18	600	2000	Louvre	90	E	No
Master WC	VAN-004-008-001	W17	600	1200	Louvre	90	E	No

Roof window* type and performance value

Default roof windows*

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



Custom roof windows*

Window ID	Window	Maximum	SHCC*	Substitution tolerance ranges		
window iD	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
VEL-010-01 W	VEL-010-01 W VELUX VS - Ventilating Skylight DG 3mm LoE 366 / 8.5mm Argon Gap / 5.36mm Clear La	2.5	0.21	0.20	0.22	
VEL-011-01 W	VEL-011-01 W VELUX FS - Fixed Skylight DG 3mm LoE 366 / 8.5mm Argon Gap / 5.36mm Clear La	2.6	0.24	0.23	0.25	

Roof window* schedule

Location	Window ID	Window no.	Opening %	Height [mm]	Width [mm]	Orientation	Outdoor shade	Indoor shade
Kitchen/Living1	VEL-010-01 W	S08	0	3200	2070	E	Yes	Yes
Ldry	VEL-011-01 W	S01	90	680	1074	Е	Yes	Yes
Living 2	VEL-010-01 W	S07	0	1660	4256	E	Yes	Yes
F Bath	VEL-010-01 W	S2	90	800	1578	W	Yes	Yes
Robe His 1	VEL-010-01 W	S06	0	1400	650	E	Yes	Yes
Robe Hers 2	VEL-010-01 W	S05	0	1400	650	E	Yes	Yes
Master Ens	VEL-010-01 W	S03	90	800	1578	E	Yes	Yes
Master Sauna	VEL-010-01 W	S04	0	800	800	Е	Yes	Yes

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 (m²]	Orientation	Outdoor shade	Diffuser
No Data Ava	nilable						

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage 1	2400	4980	90	S

7.1 Star Rating as 01 22 Jan 2025	7.1 Star Rating as of 22 Jan 20	025
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Location	Height [mm]	Width [mm]	Opening %	Orientation	
Entry	2937	1520	90	S	
Sauna	2200	650	90	W	

External wall type

Wall Wall	Solar Wall shad	e Bulk insulation	Reflective
ID type	absorptance [colour]	[R-value]	wall wrap*
EW-1 Concrete Block	0.30	No insulation	No
EW-2 Fibro Timber Stud Frame Panel Direct Fix	0.30	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 1	EW-1	2700	14000	W	0	No
Garage 1	EW-1	2700	9300	N	0	No
Garage 1	EW-1	2700	14000	E	0	No
Garage 1	EW-1	2700	3200	S	0	No
Garage 1	EW-1	2700	6100	S	400	No
Bedroom 1	EW-2	3000	4295	W	500	No
Bedroom 1	EW-2	3000	4095	S	1600	No
Bed 1 Ens	EW-2	3000	1990	W	500	No
Mud	EW-2	3000	820	SE	8246	No
Mud	EW-2	3000	1495	S	1600	No
Entry	EW-2	3000	3490	S	2400	No
Flex Space	EW-2	3000	5195	S	300	No
Flex Space	EW-2	3000	2100	W	9300	No
Bedroom 2	EW-2	3000	1100	N	100	No
Bedroom 2	EW-2	3000	4100	E	700	No
Bed 2 Ens	EW-2	3000	3495	E	700	No
Bed 2 Ens	EW-2	3000	2195	S	300	No
Kitchen/Living1	EW-2	3000	6995	W	500	No
Kitchen/Living1	EW-2	3000	1900	N	3300	No
Kitchen/Living1	EW-2	3000	400	E	14200	No
Kitchen/Living1	EW-2	3000	11495	N	3700	No

0011670908 NatHERS Certificate		7.1	Star Ratin	g as of 22 Jan 2025		AND HOO
Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Pantry	EW-2	3000	3790	Е	0	No
Ldry	EW-2	3000	1295	W	13900	No
Ldry	EW-2	3000	4090	Е	500	No
Sauna	EW-2	3000	2295	W	13900	No
Sauna	EW-2	3000	2200	N	100	No
Sauna	EW-2	3000	2295	Е	500	No
Living 2	EW-2	2700	1695	S	2300	No
Living 2	EW-2	2700	1200	W	7000	No
Living 2	EW-2	2700	6900	S	3500	No
Living 2	EW-2	2700	4495	W	100	No
Bedroom 3	EW-2	2700	4095	W	600	No
Bedroom 3	EW-2	2700	5800	N	400	No
Bedroom 3	EW-2	2700	2300	Е	100	No
Bed 3 Ens	EW-2	2700	2295	W	100	No
Bed 3 Ens	EW-2	2700	500	N	4500	No
Flex 2	EW-2	2700	3590	N	600	No
Master bed	EW-2	2700	5495	Е	0	No
Master bed	EW-2	2700	6300	S	600	No
Master bed	EW-2	2700	1700	W	8700	No
Robe His 1	EW-2	2700	2090	Е	0	No
Robe Hers 2	EW-2	2700	2190	Е	0	No
Master Ens	EW-2	2700	2300	W	3500	No
Master Ens	EW-2	2700	2895	N	400	No
Master Sauna	EW-2	2700	2490	E	0	No
Master WC	EW-2	2700	2095	N	400	No
Master WC	EW 2	2700	1405		0	No

Internal wall type

EW-2

2700

Master WC

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	344.19	No insulation

Ε

0

No

1495



Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage 1	Concrete Slab on Ground 100mm	130.20	None	No Insulation	Bare
Bedroom 1 / Garage 1	Rendered Concrete 100mm	17.38		Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Bed 1 Ens / Garage 1	Rendered Concrete 100mm	6.15		Bulk Insulation R1	Ceramic Tiles 8mm
Powder / Garage 1	Rendered Concrete 100mm	4.93		Bulk Insulation R1	Ceramic Tiles 8mm
Mud / Garage 1	Rendered Concrete 100mm	4.83		Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Entry / Garage 1	Rendered Concrete 100mm	13.52		Bulk Insulation R1	Cork Tiles or Parquetry 8mm
Desk	Concrete Slab on Ground 100mm	8.24	None	Bulk Insulation in Contact with Floor R1.1	Cork Tiles or Parquetry 8mm
Flex Space	Concrete Slab on Ground 100mm	17.90	None	Bulk Insulation in Contact with Floor R1.1	Cork Tiles or Parquetry 8mm
Bedroom 2	Concrete Slab on Ground 100mm	21.32	None	Bulk Insulation in Contact with Floor R1.1	Cork Tiles or Parquetry 8mm
Bed 2 Ens	Concrete Slab on Ground 100mm	7.53	None	Bulk Insulation in Contact with Floor R1.1	Ceramic Tiles 8mm
Kitchen/Living1 / Garage	Rendered Concrete 100mm	60.77		Bulk Insulation R1	Ceramic Tiles 8mm
Kitchen/Living1	Concrete Slab on Ground 100mm	27.23	None	Bulk Insulation in Contact with Floor R1.1	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Pantry	Concrete Slab on Ground 100mm	8.12	None	Bulk Insulation in Contact with Floor R1.1	Cork Tiles or Parquetry 8mm
Ldry	Concrete Slab on Ground 100mm	8.80	None	Bulk Insulation in Contact with Floor R1.1	Ceramic Tiles 8mm
Sauna	Concrete Slab on Ground 100mm	4.99	None	Bulk Insulation in Contact with Floor R1.1	Cork Tiles or Parquetry 8mm
Living 2 / Bedroom 1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Living 2 / Bed 1 Ens	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Living 2 / Powder	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Living 2 / Mud	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
Living 2 / Entry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	11.33		No Insulation	Cork Tiles or Parquetry 8mm
Living 2 / Kitchen/Living1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
F Bath / Kitchen/Living1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	5.69		No Insulation	Ceramic Tiles 8mm
Bedroom 3 / Kitchen/Living1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	23.55		No Insulation	Cork Tiles or Parquetry 8mm
Bed 3 Ens / Kitchen/Living1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	5.77		No Insulation	Ceramic Tiles 8mm
Flex 2 / Kitchen/Living1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	14.41		No Insulation	Cork Tiles or Parquetry 8mm
Master bed / Desk	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	6.83		No Insulation	Cork Tiles or Parquetry 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Master bed / Flex Space	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	15.70		No Insulation	Cork Tiles or Parquetry 8mm
Master bed / Bedroom 2	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	9.66		No Insulation	Cork Tiles or Parquetry 8mm
Master bed / Bed 2 Ens	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	2.99		No Insulation	Cork Tiles or Parquetry 8mm
Robe Hers 1 / Desk	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	1.00		No Insulation	Cork Tiles or Parquetry 8mm
Robe Hers 1 / Bedroom 2	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	1.17		No Insulation	Cork Tiles or Parquetry 8mm
Robe Hers 1 / Kitchen/Living1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	4.06		No Insulation	Cork Tiles or Parquetry 8mm
Robe His 1 / Bedroom 2	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	5.35		No Insulation	Cork Tiles or Parquetry 8mm
Robe His 1 / Pantry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	0.62		No Insulation	Cork Tiles or Parquetry 8mm
Robe Hers 2 / Kitchen/Living1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	2.16		No Insulation	Cork Tiles or Parquetry 8mm
Robe Hers 2 / Pantry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	4.58		No Insulation	Cork Tiles or Parquetry 8mm
Master Ens / Kitchen/Living1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	10.94		No Insulation	Ceramic Tiles 8mm
Master Sauna / Pantry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	2.32		No Insulation	Ceramic Tiles 8mm
Master Sauna / Ldry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	2.53		No Insulation	Ceramic Tiles 8mm
Master WC / Ldry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard 100mm	3.04		No Insulation	Ceramic Tiles 8mm



Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Garage 1	Concrete	No insulation	
Garage 1	Rendered Concrete	Bulk Insulation R1	
Bedroom 1	Plasterboard on Timber	Bulk Insulation R4	
Bedroom 1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Bed 1 Ens	Plasterboard on Timber	Bulk Insulation R4	
Bed 1 Ens	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Powder	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Mud	Plasterboard on Timber	Bulk Insulation R4	
Mud	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Entry	Plasterboard on Timber	Bulk Insulation R4	
Entry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Desk	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Flex Space	Plasterboard on Timber	Bulk Insulation R4	
Flex Space	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Bedroom 2	Plasterboard on Timber	Bulk Insulation R4	
Bedroom 2	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Bed 2 Ens	Plasterboard on Timber	Bulk Insulation R4	
Bed 2 Ens	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Kitchen/Living1	Plasterboard on Timber	Bulk Insulation R4	
Kitchen/Living1	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Pantry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Ldry	Plasterboard on Timber	Bulk Insulation R4	
Ldry	35mm Fibre-Reinforced Concrete Timber Frame Above Plasterboard	No Insulation	
Sauna	Plasterboard on Timber	Bulk Insulation R4	
Living 2	Plasterboard on Timber	Bulk Insulation R4	

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Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
F Bath	Plasterboard on Timber	Bulk Insulation R4	
Bedroom 3	Plasterboard on Timber	Bulk Insulation R4	
Bed 3 Ens	Plasterboard on Timber	Bulk Insulation R4	
Flex 2	Plasterboard on Timber	Bulk Insulation R4	
Master bed	Plasterboard on Timber	Bulk Insulation R4	
Robe Hers 1	Plasterboard on Timber	Bulk Insulation R4	
Robe His 1	Plasterboard on Timber	Bulk Insulation R4	
Robe Hers 2	Plasterboard on Timber	Bulk Insulation R4	
Master Ens	Plasterboard on Timber	Bulk Insulation R4	
Master Sauna	Plasterboard on Timber	Bulk Insulation R4	
Master WC	Plasterboard on Timber	Bulk Insulation R4	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Bedroom 1	2	Downlights - LED	150	Sealed
Bed 1 Ens	1	Downlights - LED	150	Sealed
Bed 1 Ens	1	Exhaust Fans	300	Sealed
Powder	1	Downlights - LED	150	Sealed
Powder	1	Exhaust Fans	300	Sealed
Mud	1	Downlights - LED	150	Sealed
Entry	3	Downlights - LED	150	Sealed
Desk	2	Downlights - LED	150	Sealed
Flex Space	4	Downlights - LED	150	Sealed
Bedroom 2	4	Downlights - LED	150	Sealed
Bed 2 Ens	1	Downlights - LED	150	Sealed
Bed 2 Ens	1	Exhaust Fans	300	Sealed
Kitchen/Living1	20	Downlights - LED	150	Sealed
Kitchen/Living1	1	Exhaust Fans	300	Sealed
Pantry	2	Downlights - LED	150	Sealed
Ldry	2	Downlights - LED	150	Sealed
Ldry	1	Exhaust Fans	300	Sealed

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Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Sauna	1	Downlights - LED	150	Sealed
Living 2	8	Downlights - LED	150	Sealed
F Bath	1	Downlights - LED	150	Sealed
F Bath	1	Exhaust Fans	300	Sealed
Bedroom 3	4	Downlights - LED	150	Sealed
Bed 3 Ens	1	Downlights - LED	150	Sealed
Bed 3 Ens	1	Exhaust Fans	300	Sealed
Flex 2	2	Downlights - LED	150	Sealed
Master bed	4	Downlights - LED	150	Sealed
Robe Hers 1	2	Downlights - LED	150	Sealed
Robe His 1	1	Downlights - LED	150	Sealed
Robe Hers 2	1	Downlights - LED	150	Sealed
Master Ens	4	Downlights - LED	150	Sealed
Master Ens	1	Exhaust Fans	300	Sealed
Master Sauna	1	Downlights - LED	150	Sealed
Master WC	1	Downlights - LED	150	Sealed
Master WC	1	Exhaust Fans	300	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Bedroom 1	1	1400
Flex Space	1	1400
Bedroom 2	1	1400
Kitchen/Living1	3	1400
Living 2	2	1400
Bedroom 3	1	1400
Flex 2	1	1400
Master bed	1	1400

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Waterproofing Membrane	No Added Insulation, No air Gap	0.30	Light

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Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Corrugated Iron Timber Frame	Foil, Gap Above, Reflective Side Down, Anti-glare Up	0.30	Light

Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	hermal break [R-value]
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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/ performance	Recommended capacity
No Data Available				

Heating system

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

Hot water system

Appliance/ system type	Fuel type	Hot Water	Minimum efficiency	Zone 3 STC		ibstitution e ranges	Assessed daily load
. <u>.</u>		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

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 confloor area in the design documents. Ceiling penetrations Ceiling penetrations Coefficient of performance Conditioned Coefficient of performance Conditioned Custom windows Default windows EER Energy use Energy value Energy value Entrance door Exposure Exposure Exposure category – exposed Line floor area modelled in the software that heating and cooling, based on standard occupancy assumptions. The net cost to society including with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendance in the ceiling with small holes through the ceiling including downlights, vents, exhaust fans, range hoods, chim the ceiling including downlights, vents, exhaust fans, range hoods, chim the ceiling for wiring, e.g. ceiling fans; pendance including downlights, vents, exhaust fans, range hoods, chim the ceiling fans, pendance including the ceiling fans; pendance including fans; pendance including fans; pendance including fans; pendance incl	ptions. In some r Energy Rating d by statistical n of electricity
the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be confloor area in the design documents. Ceiling penetrations Eatures that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chime Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pender the confliction of the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pender the confliction of the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pender the ceiling with ceiling for wiring, e.g. ceiling fans; pender the ceiling with ceiling for wiring, e.g. ceiling fans; pender the ceiling with ceiling for wiring, e.g. ceiling fans; pender the ceiling with ceiling for wiring, e.g. ceiling fans; pender the ceiling for wiring, e.g. ceilin	ptions. In some r Energy Rating d by statistical n of electricity
COP Coefficient of performance a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumpting circumstances it will include garages. Custom windows windows isted in NatHERS software that are available on the market in Australia and have a WERS (Window Scheme) rating. Default windows windows that are representative of a specific type of window product and whose properties have been derived methods. EER Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWhinput 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 net defined in the ABCB Housing Provisions Standard). Entrance door the ABCB Housing Provisions Standard. Exposure see exposure category – exposed terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above	ptions. In some r Energy Rating d by statistical n of electricity
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Exposure category – exposed terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above	
Exposure category – exposed terrain with no obstructions e.g., flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually about the control of the control	
	e 10 floors).
Exposure category – open terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10nd 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 bush	ıland 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 overhand from upper levels.	
National Construction Code (NCC) Class the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software mo (NCC) Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.	dels NCC
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 calcular	
an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the Provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS and can be found at www.nathers.gov.au	Technical Note
this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort cor zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suit person.	nditions in the ably qualified
Reflective wrap (also known as foil) can be applied to walls, roofs and ceilings. When combined with an appropriate airgap and emissivity value, it insulative properties.	provides
Roof window for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well i space, and generally does not have a diffuser.	f there is an attic
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 le	
Solar heat gain coefficient (SHGC) the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbe subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHC heat it transmits.	
STCs Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologic bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regular	itor (CER)
Thermal breaks are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the claddin but is not limited to, materials such as timber battens greater than or equal to 20mm thick or continuous therm as polystyrene insulation sheeting or plastic strips	ig. This includes, ial breaks such
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 ass	
Vertical shading features provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/w privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed)	indow. Includes I heritage trees).
Window shading device device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or verification features (eg eaves and balconies)	rtical shading