

Nationwide House Energy Rating Scheme®

NatHERS® Certificate No. 0012914305

Generated on 14 Apr 2026 using BERS Pro v5.2.6 (3.23)

Property

Address 6 Caloola Street,
CONDELL PARK , NSW , 2200

Lot/DP Lot 20 DP 240882

NCC class* 1a

Floor/all Floors G of 2 floors

Type New Home

Plans

Main plan 0029522

Prepared by JK/RL

Construction and environment

Assessed floor area [m²]*

Conditioned*	263.6
Unconditioned*	16.8
Total	315.6
Garage	35.2

Exposure type Suburban

NatHERS climate zone 56 Mascot (Sydney Airport)



Accredited assessor

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Accreditation No. DMN/12/1441

Assessor Accrediting Organisation Design Matters National

Declaration of interest Declaration completed: no conflicts

NCC Requirements

NCC provisions Volume Two

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.

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**
ENERGY RATING SCHEME®

29.2 MJ/m²

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

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

Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022
Area adjustment included

	Heating	Cooling
Modelled	22.3	7.0
Load limits	N/A	N/A
Features determining load limits		
Floor Type (lowest conditioned area)	CSOG	
NCC climate zone 1 or 2	No	
Outdoor living area	No	
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=sxtOzEelz. 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, cooking, plug-in loads 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 *ABC Standard 2025: NatHERS heating and cooling load limits* for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

Setting Options:

Floor Type:

CSOG – Concrete Slab on Ground
SF – Suspended Floor (or a mixture of CSOG and SF)
NA – Not Applicable

NCC Climate Zone 1 or 2:

Yes
No
NA – Not Applicable

Outdoor Living Area:

Yes
No
NA – Not Applicable

Outdoor Living Area Ceiling Fan:

Yes
No
NA – Not Applicable



Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

Predicted Whole of Home annual impact by appliance

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



Certificate check

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 by whom each item should be checked. It is not mandatory to complete this checklist.

	Approval Stage		Construction Stage		Occupancy/Other
	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	
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 what is shown	☐	☐	☐	☐	☐



Certificate check

Continued

	Approval Stage		Construction Stage		
	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other

Additional NCC requirements for thermal performance (not included in the NatHERS assessment)

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 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 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

Where not noted on plans, default selections to floor coverings and external colours have been used in this assessment,

as noted in the NatHERS Technical Notes. Alternative selections past this point can be made to floor coverings and

external colours, without requiring an amended certificate

Room schedule

Room	Zone Type	Area [m ²]
Garage	Garage	35.24
LAUNDRY	Unconditioned	9.72
Kitchen/Living	Kitchen/Living	54.55
RUMPUS	Living	17.98
WIP	Daytime	5.4
PR	Daytime	3.57
ENTRY/STAIR GF	Daytime	17.62
STUDY	Daytime	9.35
GUEST	Bedroom	20.11
ENS GUEST	Nighttime	5.83
WIR GUEST	Nighttime	4.53
BED 1	Bedroom	20.85
WIR BED 1	Nighttime	8.61
ENS BED 1	Nighttime	8.1
BED 3	Bedroom	14.45
WIR BED 3	Nighttime	5.03
ENS BED 3	Nighttime	6.35
BED 4	Bedroom	14.36
BATH 1F	Unconditioned	7.07
BED 2	Bedroom	11.87
WIR BED 2	Nighttime	3.27
STAIRS 1F	Daytime	3.89
VOID	Unconditioned	10.64
GAMES ROOM	Living	29.93
LP	Daytime	1.79

Window and glazed door type and performance

Default windows*

Window ID	Window Description	Maximum U-value*	SHGC*	Substitution tolerance ranges	
				SHGC lower limit	SHGC upper limit
TIM-001-01 W	Timber A SG Clear	5.4	0.56	0.53	0.59



Custom windows*

Window ID	Window Description	Maximum U-value*	SHGC*	Substitution tolerance ranges	
				SHGC lower limit	SHGC upper limit
STG-005-002	Aluminium Sliding Door SG 5Clr	6.2	0.72	0.68	0.76
STG-120-002	Aluminium Awning Window DG 4Clr/12Ar/4PbAs2	2.8	0.45	0.43	0.47
STG-004-031	Aluminium Sliding Door DG 4Clr/10Ar/4Pb	3.0	0.49	0.46	0.51
STG-006-339	Aluminium Sliding Window DG 4Clr/12Ar/4PbG	3.6	0.56	0.53	0.59
STG-074-014	Aluminium Fixed Window DG 4Clr/12Ar/4Pb	2.4	0.53	0.50	0.56
STG-002-003	Aluminium Awning Window SG 5Clr	6.4	0.63	0.60	0.66
STG-007-003	Aluminium Sliding Window SG 5Clr	6.3	0.71	0.67	0.74

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
LAUNDRY	STG-005-002-001	SD1 LAUNDRY	2200	1800	Sliding	45	W	No
Kitchen/Living	STG-120-002-001	W1 LIVING	1500	600	Awning	90	W	No
Kitchen/Living	STG-120-002-001	W2 LIVING	1500	600	Awning	90	W	No
Kitchen/Living	STG-120-002-001	W3 LIVING	1500	600	Awning	90	N	No
Kitchen/Living	STG-120-002-001	W4 LIVING	1500	600	Awning	90	N	No
Kitchen/Living	STG-004-031-001	SD1 DINING	2200	3200	Sliding	60	N	No
RUMPUS	STG-120-002-001	W1 RUMPUS	1500	600	Awning	90	N	No
RUMPUS	STG-120-002-001	W2 RUMPUS	1500	600	Awning	90	N	No
WIP	STG-006-339-001	W1 WIP	1000	1000	Sliding	45	E	No
ENTRY/STAIR GF	TIM-001-01 W	D1 ENTRY	2100	1640	Casement	90	S	No
STUDY	STG-074-014-001	W1 STUDY	2000	600	Fixed	00	S	No
STUDY	STG-074-014-001	W2 STUDY	2000	600	Fixed	00	S	No
STUDY	STG-120-002-001	W3 STUDY	2000	600	Awning	90	S	No
GUEST	STG-120-002-001	W1 GUEST	2000	800	Awning	90	S	No
ENS GUEST	STG-002-003-001	W1 ENS GUEST	1000	600	Awning	90	E	No



Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
BED 1	STG-006-339-001	W1 BED 1	700	2600	Sliding	10	N	No
ENS BED 1	STG-007-003-001	W1 ENS BED 1	1500	1400	Sliding	45	W	No
BED 3	STG-006-339-001	W1 BED 3	700	2400	Sliding	10	E	No
ENS BED 3	STG-007-003-001	W1 ENS BED 3	1000	1500	Sliding	45	N	No
BED 4	STG-006-339-001	W1 BED 4	700	2400	Sliding	10	E	No
BATH 1F	STG-007-003-001	W1 BATH	1200	1400	Sliding	45	E	No
BED 2	STG-074-014-001	W2 BED 2	1500	600	Fixed	00	S	No
BED 2	STG-120-002-001	W1 BED 2	1500	600	Awning	10	S	No
BED 2	STG-120-002-001	W3 BED 2	1500	600	Awning	10	S	No
WIR BED 2	STG-120-002-001	W1 WIR BED 2	1500	800	Awning	10	S	No
VOID	STG-074-014-001	W1 VOID	1500	800	Fixed	00	S	No
VOID	STG-074-014-001	W2 VOID	600	3000	Fixed	00	W	No
GAMES ROOM	STG-120-002-001	W1 GAMES ROOM	1500	1200	Awning	10	S	No
GAMES ROOM	STG-120-002-001	W2 GAMES ROOM	1500	600	Awning	10	W	No
GAMES ROOM	STG-120-002-001	W3 GAMES ROOM	1500	600	Awning	10	W	No

Roof window* type and performance value

Default roof windows*

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

Custom roof windows*

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

Roof window* schedule

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

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m ²]	Orientation	Outdoor shade	Diffuser
No Data Available							

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage	2143	4860	90	S
Garage	2100	820	90	N

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW-1	Single Skin Brick	0.50		No insulation	No
EW-2	Steel Stud Frame Brick Veneer	0.50		Bulk Insulation, Air 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	EW-1	3362	5695	S	600	No
Garage	EW-1	3362	6300	W	600	No
Garage	EW-1	3362	1700	N	600	No
LAUNDRY	EW-2	2590	2590	W	100	No
Kitchen/Living	EW-2	2590	4995	W	100	No
Kitchen/Living	EW-2	2590	7995	N	4700	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
RUMPUS	EW-2	2590	3795	N	4700	Yes
RUMPUS	EW-2	2590	4795	E	100	No
WIP	EW-2	2590	2790	E	100	No
ENTRY/STAIR GF	EW-2	2590	2295	S	3700	No
STUDY	EW-2	2590	1595	E	150	No
STUDY	EW-2	2591	500	E	150	No
STUDY	EW-2	2590	3700	S	100	No
STUDY	EW-2	2590	3195	W	2500	No
GUEST	EW-2	2590	5495	E	100	No
GUEST	EW-2	2590	1800	S	100	No
ENS GUEST	EW-2	2590	1890	E	100	No
BED 1	EW-2	2440	4690	N	600	No
WIR BED 1	EW-2	2440	2195	W	600	No
WIR BED 1	EW-2	2440	3995	N	600	No
ENS BED 1	EW-2	2440	2090	W	600	No
BED 3	EW-2	2440	3690	E	600	No
WIR BED 3	EW-2	2440	1690	E	600	No
ENS BED 3	EW-2	2440	3095	N	600	No
ENS BED 3	EW-2	2440	2095	E	600	No
BED 4	EW-2	2440	3690	E	600	No
BATH 1F	EW-2	2440	1890	E	600	No
BED 2	EW-2	2440	1600	E	600	No
BED 2	EW-2	2440	3700	S	600	No
BED 2	EW-2	2440	2695	W	600	No
WIR BED 2	EW-2	2440	1895	E	600	No
WIR BED 2	EW-2	2440	1795	S	600	No
VOID	EW-2	2440	2300	S	600	No
VOID	EW-2	2440	5795	W	600	No
GAMES ROOM	EW-2	2440	495	W	4600	No
GAMES ROOM	EW-2	2440	4000	S	600	No
GAMES ROOM	EW-2	2440	3295	W	600	No

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation [R-value]
IW-001	Steel Stud Frame, Direct Fix Plasterboard	27.45	Bulk Insulation, No Air Gap R2.5
IW-002	Steel Stud Frame, Direct Fix Plasterboard	238.40	No insulation
IW-003	Steel Stud Frame, Direct Fix Plasterboard	14.40	Bulk Insulation, No Air Gap R2

Floor type

Location	Construction	Area [m ²]	Sub-floor ventilation	Insulation [R-value]	Slab edge insulation [R-value]	Covering
Garage	Waffle pod slab 225 mm 85mm	35.12	None	Waffle Pod 225mm		Bare
LAUNDRY	Waffle pod slab 300 mm 85mm	9.72	None	Waffle Pod 300mm		Ceramic Tiles 8mm
Kitchen/Living	Waffle pod slab 300 mm 85mm	54.55	None	Waffle Pod 300mm		Ceramic Tiles 8mm
RUMPUS	Waffle pod slab 300 mm 85mm	17.98	None	Waffle Pod 300mm		Carpet+Rubber Underlay 18mm
WIP	Waffle pod slab 300 mm 85mm	5.40	None	Waffle Pod 300mm		Ceramic Tiles 8mm
PR	Waffle pod slab 300 mm 85mm	3.57	None	Waffle Pod 300mm		Ceramic Tiles 8mm
ENTRY/STAIR GF	Waffle pod slab 300 mm 85mm	17.62	None	Waffle Pod 300mm		Ceramic Tiles 8mm
STUDY	Waffle pod slab 300 mm 85mm	9.35	None	Waffle Pod 300mm		Carpet+Rubber Underlay 18mm
GUEST	Waffle pod slab 300 mm 85mm	20.11	None	Waffle Pod 300mm		Carpet+Rubber Underlay 18mm
ENS GUEST	Waffle pod slab 300 mm 85mm	5.83	None	Waffle Pod 300mm		Ceramic Tiles 8mm
WIR GUEST	Waffle pod slab 300 mm 85mm	4.53	None	Waffle Pod 300mm		Carpet+Rubber Underlay 18mm
BED 1 / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	18.20		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
BED 1 / RUMPUS	Steel Framed Timber Above Plasterboard 19mm	2.24		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
WIR BED 1 / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	8.61		Bulk Insulation R2		Carpet+Rubber Underlay 18mm



Location	Construction	Area [m ²]	Sub-floor ventilation	Insulation [R-value]	Slab edge insulation [R-value]	Covering
ENS BED 1 / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	8.10		Bulk Insulation R2		Ceramic Tiles 8mm
BED 3 / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	5.24		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
BED 3 / RUMPUS	Steel Framed Timber Above Plasterboard 19mm	3.45		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
BED 3 / WIP	Steel Framed Timber Above Plasterboard 19mm	5.05		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
WIR BED 3 / RUMPUS	Steel Framed Timber Above Plasterboard 19mm	5.03		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
ENS BED 3 / RUMPUS	Steel Framed Timber Above Plasterboard 19mm	6.35		Bulk Insulation R2		Ceramic Tiles 8mm
BED 4 / PR	Steel Framed Timber Above Plasterboard 19mm	1.08		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
BED 4 / GUEST	Steel Framed Timber Above Plasterboard 19mm	3.47		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
BED 4 / ENS GUEST	Steel Framed Timber Above Plasterboard 19mm	5.63		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
BED 4 / WIR GUEST	Steel Framed Timber Above Plasterboard 19mm	2.44		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
BATH 1F / GUEST	Steel Framed Timber Above Plasterboard 19mm	7.07		Bulk Insulation R2		Ceramic Tiles 8mm
BED 2 / STUDY	Steel Framed Timber Above Plasterboard 19mm	7.35		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
BED 2 / GUEST	Steel Framed Timber Above Plasterboard 19mm	4.06		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
WIR BED 2 / GUEST	Steel Framed Timber Above Plasterboard 19mm	3.27		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
STAIRS 1F / ENTRY/STAIR GF	Steel Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2		Ceramic Tiles 8mm
VOID / ENTRY/STAIR GF	Steel Framed Timber Above Plasterboard 19mm	7.76		Bulk Insulation R2		Ceramic Tiles 8mm
GAMES ROOM / LAUNDRY	Steel Framed Timber Above Plasterboard 19mm	9.56		Bulk Insulation R2		Carpet+Rubber Underlay 18mm



Location	Construction	Area [m ²]	Sub-floor ventilation	Insulation [R-value]	Slab edge insulation [R-value]	Covering
GAMES ROOM / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	11.04		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
GAMES ROOM / PR	Steel Framed Timber Above Plasterboard 19mm	1.44		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
GAMES ROOM / ENTRY/STAIR GF	Steel Framed Timber Above Plasterboard 19mm	2.21		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
GAMES ROOM / GUEST	Steel Framed Timber Above Plasterboard 19mm	0.42		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
GAMES ROOM / WIR GUEST	Steel Framed Timber Above Plasterboard 19mm	1.08		Bulk Insulation R2		Carpet+Rubber Underlay 18mm
LP / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	1.78		Bulk Insulation R2		Carpet+Rubber Underlay 18mm

Ceiling type

Location	Construction material/type	Bulk insulation [R-value] (may include edge batt values)
Garage	Plasterboard on Timber	No insulation
LAUNDRY	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
Kitchen/Living	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
RUMPUS	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
WIP	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
PR	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
ENTRY/STAIR GF	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
STUDY	Plasterboard on Timber	Bulk Insulation R6
STUDY	Plasterboard on Timber	Bulk Insulation R2.5
STUDY	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
GUEST	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
ENS GUEST	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
WIR GUEST	Steel Framed Timber Above Plasterboard	Bulk Insulation R2
BED 1	Plasterboard on Timber	Bulk Insulation R6
BED 1	Plasterboard on Timber	Bulk Insulation R2.5
WIR BED 1	Plasterboard on Timber	Bulk Insulation R6

Location	Construction material/type	Bulk insulation [R-value] (may include edge batt values)
WIR BED 1	Plasterboard on Timber	Bulk Insulation R2.5
ENS BED 1	Plasterboard on Timber	Bulk Insulation R6
ENS BED 1	Plasterboard on Timber	Bulk Insulation R2.5
BED 3	Plasterboard on Timber	Bulk Insulation R6
BED 3	Plasterboard on Timber	Bulk Insulation R2.5
WIR BED 3	Plasterboard on Timber	Bulk Insulation R6
WIR BED 3	Plasterboard on Timber	Bulk Insulation R2.5
ENS BED 3	Plasterboard on Timber	Bulk Insulation R6
ENS BED 3	Plasterboard on Timber	Bulk Insulation R2.5
BED 4	Plasterboard on Timber	Bulk Insulation R6
BED 4	Plasterboard on Timber	Bulk Insulation R2.5
BATH 1F	Plasterboard on Timber	Bulk Insulation R6
BATH 1F	Plasterboard on Timber	Bulk Insulation R2.5
BED 2	Plasterboard on Timber	Bulk Insulation R6
BED 2	Plasterboard on Timber	Bulk Insulation R2.5
WIR BED 2	Plasterboard on Timber	Bulk Insulation R6
WIR BED 2	Plasterboard on Timber	Bulk Insulation R2.5
STAIRS 1F	Plasterboard on Timber	Bulk Insulation R6
VOID	Plasterboard on Timber	Bulk Insulation R6
VOID	Plasterboard on Timber	Bulk Insulation R2.5
GAMES ROOM	Plasterboard on Timber	Bulk Insulation R6
GAMES ROOM	Plasterboard on Timber	Bulk Insulation R2.5
LP	Plasterboard on Timber	Bulk Insulation R6

Ceiling penetrations*

Location	Quantity	Type	Diameter [mm]	Sealed/unsealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
PR	1	Exhaust Fans	300	Sealed
ENS GUEST	1	Exhaust Fans	300	Sealed
ENS BED 1	1	Exhaust Fans	300	Sealed
ENS BED 3	1	Exhaust Fans	300	Sealed
BATH 1F	1	Exhaust Fans	300	Sealed



Ceiling fans

Location	Quantity	Diameter [mm]
Kitchen/Living	1	1200
RUMPUS	1	1200
STUDY	1	1200
GAMES ROOM	1	1200

Roof type

Construction	Insulation [R-value]	Reflective wrap* [yes/no]	Solar absorptance [colour]	Roof shade
Roof Tiles 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 [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]
Internal Wall	90.00mm x 40.00mm	600	0.75	R0.20
External Wall	90.00mm x 40.00mm	600	0.75	None
Ceiling	90.00mm x 40.00mm	900	0.75	None
Internal Wall	90.00mm x 40.00mm	600	0.75	None
Floor	100.00mm x 50.00mm	450	1.5	None

Appliance schedule

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

Cooling system

Appliance/ system type	Location	Fuel type	Performance	Recommended capacity
No Data Available				

Heating system

Appliance/ system type	Location	Fuel type	Performance	Recommended capacity
No Data Available				

Hot water system

Appliance/ system type	Fuel type	Performance	Hot water CER* zone
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Hot water system

Appliance/ system type	Fuel type	Performance	Hot water CER* zone
No Data Available			

Lighting

Lighting power density [W/m ²] (default assumption 5W/m ²)
No Data Available

Cooking

Cooktop type	Oven type
No Data Available	

Pool/spa equipment

Appliance/ system type	Volume [Litres]	Star rating	Recommended pump capacity [W]
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 home's 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.
CER	Clean Energy Regulator
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 home's 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.
Modelled airtightness	the air permeability rate determined by software inputs when generating this rating. This is for informational purposes only and not suitable for assessing compliance.
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). NatHERS uses a 10-year STC.
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 attached to the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).
Window shading device	device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)