Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 0009655796

Generated on 29 Jul 2024 using BERS Pro v5.2.2 (3.23)

Property

Address 1142 Pittwater Road.

COLLAROY, NSW, 2097

Lot/DP Lot DP 0 NCC class* 1a

G of 2 floors Floor/all Floors New Home Type

Plans

24007 Main plan

Prepared by Yan Honda Architects

Construction and environment

Assessed floor area [m2]*

319.3

Conditioned* 19.7 Unconditioned*

391.4 Total

Garage 52.4 Exposure type

Suburban

NatHERS climate zone

56 Mascot (Sydney Airport)



Accredited assessor

Ian Fry

Business name Frys Energywise

Email comply@frysenergywise.com.au

Phone 02 9899 2825 Accreditation No. DMN/12/1441

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration completed: no conflicts

NCC Requirements

NCC provisions Volume Two

Strate/Territory variation

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.a

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

Thermal performance Star rating



NATIONWIDE

29.8 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 17.2 12.6 Load limits N/A N/A

Features determining load limits

Floor Type CSOG (lowest conditioned area) 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=cfPbKyafG When using either link, ensure you are visiting hstar.com.au





About the ratings

Thermal performance rating

NatHERS thermal software models the expected heating and cooling energy loads using information about the design, construction, climate and common patterns of household use. The thermal performance rating (shown as a star rating on this Certificate) does not take into account appliances, apart from the airflow impacts from ceiling fans.

Whole of Home performance rating

NatHERS Whole of Home software uses the heating and cooling energy loads combined with the energy performance of the home's appliances (heating, cooling, hot water, lighting, pool/spa pump and onsite renewable energy generation and storage) and models the expected energy value* of the whole home. The Whole of Home performance rating is shown as a score out of 100 on this Certificate.

Predicted Whole of Home annual impact by appliance

Energy use

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

No

NA - Not Applicable

Outdoor Living Area Ceiling Fan:

Yes

No

NA - Not Applicable



Greenhouse gas emissions

Cost

No Whole of Home performance assessment conducted for this certificate

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

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7 Star Rating as of 29 Jul 2024

A		
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Certificate check	Approva	oval Stage Construction Stage			
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Assess	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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7 Star Rating as of 29 Jul 2024

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	Approva	l Stage	Construe Stage		
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not include	ıded in ti	he NatHE	RS asse	ssment)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
Has the insulation been installed according to the NCC requirements?					
Building sealing					
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Hom	e performa	ance asses	ssment is r	not conduc	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	assessi	nent)		
Does the lighting meet the artificial lighting requirements specified in the NCC?					
Does the hot water system meet the additional requirements specified in the NCC?					
Provisional values* check	n	n	•		
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?					
Other NCC requirements					
Note: This Certificate only covers the energy efficiency requirements in the NCC. Addi but are not limited to: condensation, structural and fire safety requirements and any st requirements.					
Additional notes					
Where not noted on plans, default selections to floor coverings and external	colours ha	ave been u	sed in this	i	
assessment, as noted in the NatHERS Technical Notes. Alternative selection	ns past this	s point can	be made	to floor	
coverings and external colours, without requiring an amended certificate.					



Room schedule

Room	Zone Type	Area [m²]
BED 1	Bedroom	16.93
BED 1 ENS	Nighttime	4.51
GF RUMPUS	Living	17.67
GF BATH 1	Unconditioned	4.27
GF BATH 2	Unconditioned	4.24
LAUNDRY	Unconditioned	6.54
ENTRY GF HALL	Daytime	19.91
BED 2 ENS	Nighttime	5.56
BED 2	Bedroom	12.85
LIV KIT DIN	Kitchen/Living	70.94
GARAGE	Garage	52.41
BED 3 ENS	Nighttime	4.82
BED 3 WIR	Nighttime	7.09
BED 3	Bedroom	18.72
UF WC	Unconditioned	4.65
LIVING UF HALL	Living	46.7
BED 5 ENS	Nighttime	3.71
BED 5	Bedroom	22.58
BED 6 ENS	Nighttime	3.8
BED 6	Bedroom	22.42
STUDY	Daytime	16.79
UF STORAGE	Daytime	5.67
BED 4	Bedroom	18.66
BED 4 ENS	Nighttime	5.46

Window and glazed door type and performance

Default windows*

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



Custom windows*

Window ID	Window	Maximum		Substitution tolerance ranges			
Window ID	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit		
AWS-003-064	Aluminium Sliding Window DG AGG PLUS CIr 6/10/4	3.3	0.46	0.44	0.49		
VAN-004-001	Aluminium Louvre Window SG 6Clr	6.1	0.64	0.61	0.67		
AWS-007-002	Aluminium Awning Window SG 5Clr	6.4	0.64	0.61	0.67		
AWS-018-001	Aluminium Hinged Door SG 5Clr	5.9	0.56	0.53	0.59		
AWS-067-039	Aluminium Fixed Window DG AGG PLUS CIr 4/12/4	2.2	0.55	0.52	0.58		
AWS-089-058	Aluminium Sliding Door DG LB Next Clr 6.5/12/5	2.2	0.53	0.50	0.55		
AWS-066-007	Aluminium Fixed Window SG 5Clr	5.9	0.75	0.71	0.79		
AWS-019-042	Aluminium Hinged Door DG SOLOS OE Clr 4/12Ar/4	3.2	0.41	0.39	0.43		
VAN-002-089	Aluminium Double Hung Window DG AGG PLUS CIr 4/12/4	3.7	0.42	0.40	0.44		

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
BED 1	AWS-003-064-001	W13	1200	2200	Sliding	30	N	No
GF RUMPUS	VAN-004-001-001	W11	2100	700	Louvre	90	W	No
GF RUMPUS	VAN-004-001-001	W12	2100	700	Louvre	90	W	No
GF BATH 1	AWS-007-002-001	W10	900	700	Awning	90	W	No
LAUNDRY	VAN-004-001-001	W09	2100	600	Louvre	90	E	No
LAUNDRY	AWS-018-001-001	D03	2100	900	Casement	90	E	No
ENTRY GF HALL	AWS-067-039-001	W08 Lower	2600	1600	Fixed	00	S	No
BED 2	AWS-003-064-001	W01	1200	2200	Sliding	30	N	No
LIV KIT DIN	VAN-004-001-001	W02	2400	900	Louvre	90	N	No
LIV KIT DIN	VAN-004-001-001	W03	2400	900	Louvre	90	N	No
LIV KIT DIN	VAN-004-001-001	W04	2400	900	Louvre	90	N	No

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0009655796 NatHERS Certificate 7 Star Rating as of 29 Jul 2024								NATIONWIDE HOUSE
Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
LIV KIT DIN	VAN-004-001-001	W5	2400	900	Louvre	90	N	No
LIV KIT DIN	AWS-089-058-001	D01	2400	4000	Sliding	66	E	No
LIV KIT DIN	AWS-089-058-001	D02	2400	4000	Sliding	66	E	No
LIV KIT DIN	AWS-067-039-001	W06	600	4000	Fixed	00	S	No
LIV KIT DIN	AWS-067-039-001	W07	600	4000	Fixed	00	S	No
GARAGE	AWS-066-007-001	EXW01	1416	643	Fixed	00	N	No
GARAGE	AWS-066-007-001	EXW02	1416	643	Fixed	00	N	No
GARAGE	AWS-066-007-001	EXW03	1416	643	Fixed	00	N	No
BED 3 ENS	AWS-007-002-001	W15	1500	700	Awning	90	W	Yes
BED 3 WIR	AWS-019-042-001	D04	2700	860	Casement	90	W	No
BED 3	AWS-003-064-001	W16	1300	2200	Sliding	10	NE	No
UF WC	AWS-007-002-001	W14	1500	700	Awning	90	W	Yes
LIVING UF HALL	AWS-067-039-001	W17	2400	1600	Fixed	00	N	No
LIVING UF HALL	AWS-067-039-001	W20	2400	1600	Fixed	00	S	No
LIVING UF HALL	AWS-089-058-001	D09	2700	2199	Sliding	45	W	No
BED 5 ENS	AWS-007-002-001	W18	1000	600	Awning	90	N	No
BED 5	AWS-089-058-001	D05	2700	2700	Sliding	10	Е	Yes
BED 6	AWS-089-058-001	D06	2700	2700	Sliding	10	Е	Yes
STUDY	AWS-089-058-001	D07	2700	2700	Sliding	10	Е	Yes

Roof window* type and performance value

VAN-002-089-001

AWS-003-064-001

AWS-019-042-001

AWS-007-002-001

W19

W21

D08

W22

Default roof windows*

UF STORAGE

BED 4

BED 4

BED 4 ENS

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

1600

1500

2700

1500

600 Double Hung

Casement

1620 Sliding

700 Awning

860

45

10

10

90

S

Ε

W

W

No

No

No

Yes



Custom roof windows*

Window ID	Window	Maximum	SHCC*	Substitution tolerance ranges		
	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	

No Data Available

Roof window* schedule

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

No Data Available

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

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

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
ENTRY GF HALL	2040	820	90	N
GARAGE	2100	2500	90	S
GARAGE	2148	4000	90	S

External wall type

Wall ID	Wall type	Solar Wall shade absorptance [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW-	Cavity Brick	0.50	Foil Anti-glare one side and Reflective other of the Bulk Insulation R0.9	Yes
EW-	Cavity Brick	0.50	No insulation	No
EW-	Single Skin Brick	0.50	No insulation	No
EW- 4	Timber Stud Frame Brick Veneer	0.50	Anti-glare foil with bulk no gap R2.5	No



External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
BED 1	EW-1	2600	4245	N	1500	No
BED 1	EW-1	2600	2500	E	13000	No
GF RUMPUS	EW-1	2600	4190	W	900	No
GF BATH 1	EW-1	2600	1645	S	100	No
GF BATH 1	EW-1	2600	2700	W	200	Yes
GF BATH 1	EW-1	2600	700	N	11200	No
GF BATH 2	EW-1	2600	1690	S	100	No
LAUNDRY	EW-1	2600	2645	Е	100	No
LAUNDRY	EW-1	2600	2545	S	100	No
ENTRY GF HALL	EW-1	2600	1590	N	4000	No
ENTRY GF HALL	EW-1	2600	200	Е	9200	No
ENTRY GF HALL	EW-1	2600	2600	S	100	No
BED 2	EW-1	2600	2500	W	15900	No
BED 2	EW-1	2600	3545	N	200	No
LIV KIT DIN	EW-1	2600	6445	N	200	No
LIV KIT DIN	EW-1	2600	9500	E	1200	No
LIV KIT DIN	EW-1	2600	9145	S	100	No
GARAGE	EW-2	2600	145	W	900	No
GARAGE	EW-3	2600	8700	S	100	No
GARAGE	EW-3	2600	5400	W	100	No
GARAGE	EW-3	2600	9800	N	1300	No
GARAGE	EW-3	2600	200	Е	17300	No
BED 3 ENS	EW-4	2700	3095	N	100	No
BED 3 ENS	EW-4	2700	1595	W	1362	Yes
BED 3 WIR	EW-4	2700	2390	W	1400	No
BED 3	EW-4	2700	2895	N	100	No
BED 3	EW-4	2700	539	NE	135	No
BED 3	EW-4	2700	2612	NE	964	No
UF WC	EW-4	2700	2595	S	100	No

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Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]	
UF WC	EW-4	2700	1895	W	1400	Yes	
LIVING UF HALL	EW-4	2700	2490	N	1600	No	
LIVING UF HALL	EW-4	2700	200	E	8888	No	
LIVING UF HALL	EW-4	2700	2595	S	100	No	
LIVING UF HALL	EW-4	2700	2195	W	800	Yes	
BED 5 ENS	EW-4	2700	595	W	12300	No	
BED 5 ENS	EW-4	2700	412	NW	3298	No	
BED 5 ENS	EW-4	2700	424	NW	636	No	
BED 5 ENS	EW-4	2700	447	N	224	No	
BED 5 ENS	EW-4	2700	1895	N	100	Yes	
BED 5	EW-4	2700	5495	N	100	No	
BED 5	EW-4	2700	3295	E	1500	Yes	
BED 6	EW-4	2700	3290	Е	1500	Yes	
STUDY	EW-4	2700	3095	Е	1500	Yes	
STUDY	EW-4	2700	5495	S	100	No	
UF STORAGE	EW-4	2700	2790	S	100	No	
BED 4	EW-4	2700	2100	Е	100	No	
BED 4	EW-4	2700	3595	S	100	No	
BED 4	EW-4	2700	1590	W	800	Yes	
BED 4 ENS	EW-4	2700	1995	S	100	No	
BED 4 ENS	EW-4	2700	2795	W	800	Yes	

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Single Skin Brick	95.55	No insulation
IW-002	TimberStud Frame, Brick Veneer	7.28	Bulk Insulation, No Air Gap R2.5
IW-003	Cavity Brick	7.28	No insulation
IW-004	Timber Stud Frame, Direct Fix Plasterboard	176.85	No insulation
IW-005	Timber Stud Frame, Direct Fix Plasterboard	5.13	Bulk Insulation, No Air Gap R2.5



Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
BED 1	Concrete Slab on Ground 100mm	16.93	None	No Insulation	Carpet+Rubber Underlay 18mm
BED 1 ENS	Concrete Slab on Ground 100mm	4.51	None	No Insulation	Ceramic Tiles 8mm
GF RUMPUS	Concrete Slab on Ground 100mm	17.67	None	No Insulation	Carpet+Rubber Underlay 18mm
GF BATH 1	Concrete Slab on Ground 100mm	4.27	None	No Insulation	Ceramic Tiles 8mm
GF BATH 2	Concrete Slab on Ground 100mm	4.24	None	No Insulation	Ceramic Tiles 8mm
LAUNDRY	Concrete Slab on Ground 100mm	6.54	None	No Insulation	Ceramic Tiles 8mm
ENTRY GF HALL	Concrete Slab on Ground 100mm	19.91	None	No Insulation	Ceramic Tiles 8mm
BED 2 ENS	Concrete Slab on Ground 100mm	5.56	None	No Insulation	Ceramic Tiles 8mm
BED 2	Concrete Slab on Ground 100mm	12.85	None	No Insulation	Carpet+Rubber Underlay 18mm
LIV KIT DIN	Concrete Slab on Ground	70.95	None	No Insulation	40/60 Carpet 10mm/Ceramic
GARAGE	Concrete Slab on Ground 100mm	52.41	None	No Insulation	Bare
BED 3 ENS / GARAGE	Concrete Timber Framed Above Plasterboard 200mm	3.27		Bulk Insulation R2	Ceramic Tiles 8mm
BED 3 ENS	Suspended Concrete Slab 200mm	1.41	Totally Open	Bulk Insulation in Contact with Floor R2	Ceramic Tiles 8mm
BED 3 WIR / GARAGE	Concrete Timber Framed Above Plasterboard 150mm	7.10		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 3 / BED 1	Concrete Timber Framed Above Plasterboard 200mm	13.20		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 3 / GARAGE	Concrete Timber Framed Above Plasterboard 200mm	2.46		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 3	Suspended Concrete Slab 200mm	2.23	Totally Open	Bulk Insulation in Contact with Floor R2	Carpet+Rubber Underlay 18mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
UF WC / GARAGE	Concrete Timber Framed Above Plasterboard 150mm	4.65		Bulk Insulation R2	Ceramic Tiles 8mm
LIVING UF HALL / BED	Concrete Timber Framed Above Plasterboard 200mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
LIVING UF HALL / BED 1 ENS	Concrete Timber Framed Above Plasterboard 200mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
LIVING UF HALL / GF RUMPUS	Concrete Timber Framed Above Plasterboard 200mm	2.23		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
LIVING UF HALL / ENTRY GF HALL	Concrete Timber Framed Above Plasterboard 200mm	11.73		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
LIVING UF HALL / BED 2 ENS	Concrete Timber Framed Above Plasterboard 200mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
LIVING UF HALL / BED	Concrete Timber Framed Above Plasterboard 200mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
LIVING UF HALL / LIV KIT DIN	Concrete Timber Framed Above Plasterboard 200mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
LIVING UF HALL / GARAGE	Concrete Timber Framed Above Plasterboard 200mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
LIVING UF HALL	Suspended Concrete Slab 200mm	1.23	Totally Open	Bulk Insulation in Contact with Floor R2	Carpet+Rubber Underlay 18mm
BED 5 ENS / BED 2	Concrete Timber Framed Above Plasterboard 200mm	3.13		Bulk Insulation R2	Ceramic Tiles 8mm
BED 5 / BED 2	Concrete Timber Framed Above Plasterboard 200mm	4.25		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 5 / LIV KIT DIN	Concrete Timber Framed Above Plasterboard 200mm	16.81		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 5	Suspended Concrete Slab 200mm	0.67	Totally Open	Bulk Insulation in Contact with Floor R2	Carpet+Rubber Underlay 18mm
BED 6 ENS / BED 2 ENS	Concrete Timber Framed Above Plasterboard 150mm	2.09		Bulk Insulation R2	Ceramic Tiles 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
BED 6 ENS / BED 2	Concrete Timber Framed Above Plasterboard 150mm	1.31		Bulk Insulation R2	Ceramic Tiles 8mm
BED 6 / ENTRY GF HALL	Concrete Timber Framed Above Plasterboard 150mm	0.11		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 6 / BED 2 ENS	Concrete Timber Framed Above Plasterboard 150mm	1.49		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 6 / LIV KIT DIN	Concrete Timber Framed Above Plasterboard 150mm	19.64		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
STUDY / LIV KIT DIN	Concrete Timber Framed Above Plasterboard 150mm	16.79		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
UF STORAGE / LIV KIT	Concrete Timber Framed Above Plasterboard 150mm	5.67		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 4 / GF RUMPUS	Concrete Timber Framed Above Plasterboard 200mm	8.48		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 4 / GF BATH 2	Concrete Timber Framed Above Plasterboard 200mm	1.72		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 4 / LAUNDRY	Concrete Timber Framed Above Plasterboard 200mm	5.07		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 4 / ENTRY GF HALL	Concrete Timber Framed Above Plasterboard 200mm	1.92		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
BED 4 ENS / GF RUMPUS	Concrete Timber Framed Above Plasterboard 200mm	1.12		Bulk Insulation R2	Ceramic Tiles 8mm
BED 4 ENS / GF BATH	Concrete Timber Framed Above Plasterboard 200mm	2.37		Bulk Insulation R2	Ceramic Tiles 8mm
BED 4 ENS / GF BATH 2	Concrete Timber Framed Above Plasterboard 200mm	1.54		Bulk Insulation R2	Ceramic Tiles 8mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
BED 1	Plasterboard on Timber	Bulk Insulation R6	
BED 1	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
BED 1 ENS	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	_

0009655796 NatHER	RS Certificate 7 Star Rating as of 29 Jul 2024 Construction	Bulk insulation R-value	Reflective
Location	material/type	(may include edge batt values)	wrap* [yes/no]
GF RUMPUS	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
GF BATH 1	Plasterboard on Timber	Bulk Insulation R6	
GF BATH 1	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
GF BATH 2	Plasterboard on Timber	Bulk Insulation R6	
GF BATH 2	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
LAUNDRY	Plasterboard on Timber	Bulk Insulation R6	
LAUNDRY	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
ENTRY GF HALL	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
BED 2 ENS	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
BED 2	Plasterboard on Timber	Bulk Insulation R6	
BED 2	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
LIV KIT DIN	Concrete, Plasterboard with Timber Frame	Bulk Insulation R6	
LIV KIT DIN	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
GARAGE	Plasterboard on Timber	No insulation	
GARAGE	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2	
BED 3 ENS	Plasterboard on Timber	Bulk Insulation R6	
BED 3 WIR	Plasterboard on Timber	Bulk Insulation R6	
BED 3	Plasterboard on Timber	Bulk Insulation R6	
UF WC	Plasterboard on Timber	Bulk Insulation R6	
LIVING UF HALL	Plasterboard on Timber	Bulk Insulation R6	
BED 5 ENS	Plasterboard on Timber	Bulk Insulation R6	
BED 5	Plasterboard on Timber	Bulk Insulation R6	
BED 6 ENS	Plasterboard on Timber	Bulk Insulation R6	
BED 6	Plasterboard on Timber	Bulk Insulation R6	
STUDY	Plasterboard on Timber	Bulk Insulation R6	
UF STORAGE	Plasterboard on Timber	Bulk Insulation R6	
BED 4	Plasterboard on Timber	Bulk Insulation R6	
BED 4 ENS	Plasterboard on Timber	Bulk Insulation R6	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
BED 1 ENS	1	Exhaust Fans	300	Sealed

0009655796 NatHERS Certificate		7 Star Rating as of 29 Jul 2024	7 Star Rating as of 29 Jul 2024		
Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	HOUSE
GF BATH 1	1	Exhaust Fans	300	Sealed	
GF BATH 2	1	Exhaust Fans	300	Sealed	
BED 2 ENS	1	Exhaust Fans	300	Sealed	
LIV KIT DIN	1	Exhaust Fans	300	Sealed	
BED 3 ENS	1	Exhaust Fans	300	Sealed	
UF WC	1	Exhaust Fans	300	Sealed	
BED 5 ENS	1	Exhaust Fans	300	Sealed	
BED 6 ENS	1	Exhaust Fans	300	Sealed	
BED 4 ENS	1	Exhaust Fans	300	Sealed	

Ceiling fans

Location	Quantity	Diameter [mm]
LIVING UF HALL	1	1200

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.50	Medium
Waterproofing Membrane	No Insulation, Only an Air Gap	0.50	Medium
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	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]	break [R-value]
No Data Available				_

Appliance schedule

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

Note: A flat assumption of 5W/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	Lo	cation F	uel type	eff	inimum iciency/ formance		mended acity
No Data Available							
Hot water system							
Appliance/ system type	Fuel type	Hot Water CER Zone	Minimum efficiency /STC	Zone 3 STC		ubstitution e ranges upper limit	Assessed daily load [litres]
No Data Available							
Pool/spa equipment							
Appliance/ system type		Fuel type		Minimu efficiend performa	cy/	Recomm	
No Data Available							
Onsite Renewable	Energy Sch	nedule					
System Type O	rientation		Syst	em Size O	r Generation	Capacity	

Battery Schedule

System Type	Size [Battery Storage Capacity]
No Data Available	



Explanatory notes

About this report

NatHERS ratings are a reliable guide for comparing different dwelling designs and to demonstrate that designs meet the energy efficiency requirements in the National Construction Code.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the heating and cooling energy loads and energy value* of the whole home. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy generation and storage to estimate the homes energy value*.

The actual energy loads, cost and greenhouse gas emissions of a home may vary from that predicted. This is because the assumptions will not always match the actual occupant usage patterns. For example, the number of occupants and how people use their appliances will vary.

Energy efficient homes use less energy, are warmer on cool days, cooler on hot days and cost less to run.

Accredited assessors

For quality assured NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and

are not quality assured.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in the certificate is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy load, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor using the NatHERS accredited software tool are presented in this report and further details or data files may be obtained from the assessor.

Glossary

AFRC	Australian Fenestration Rating Council
Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
Assessed floor area	the floor area modelled in the software for the purpose of the NatHERS assessment. Note, this may not be consistent with the floor area in the design documents.
Ceiling penetrations	features that require a penetration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Excludes fixtures attached to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts.
COP	Coefficient of performance
Conditioned	a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some circumstances it will include garages.
Custom windows	windows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Scheme) rating.
Default windows	windows that are representative of a specific type of window product and whose properties have been derived by statistical methods.
EER	Energy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input
Energy use	This is your homes rating without solar or batteries.
Energy value	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the ABCB Housing Provisions Standard).
Entrance door	these signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilated corridor in a Class 2 building.
Exposure	see exposure categories below.
Exposure category – exposed	terrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors).
Exposure category – open	terrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with scattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – protected	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
Exposure category – suburban	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate airgap and emissivity value, it provides insulative properties.
Roof window	for NatHERS this is typically an operable window (i.e. can be opened), will have a plaster or similar light well if there is an attic space, and generally does not have a diffuser.
Shading features	includes neighbouring buildings, fences, and wing walls, but excludes eaves.
Skylight (also known as roof lights) for NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.
Solar heat gain coefficient (SHGC)	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.
STCs	Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may be bought and sold as part of the Small-scale Renewable Energy Scheme operated by the Clean Energy Regulator (CER)
Thermal breaks	are materials with an R-value greater than or equal to 0.2 that must separate the metal frame from the cladding. This includes, but is not limited to, materials such as timber battens greater than or equal to 20mm thick or continuous thermal breaks such as polystyrene insulation sheeting or plastic strips
U-value	the rate of heat transfer through a window. The lower the U-value, the better the insulating ability.
Unconditioned	a zone within a dwelling that is assumed to not require heating and cooling based on standard occupancy assumptions.
Vertical shading features	provides shading to the building in the vertical plane and can be parallel or perpendicular to the subject wall/window. Includes privacy screens, other walls in the building (wing walls), fences, other buildings, vegetation (protected or listed heritage trees).
Window shading device	device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)