Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 0009822743-02

Generated on 11 Feb 2025 using BERS Pro v5.2.4 (3.23)

Property

Address Unit Lot 2, 90 90 Brighton Street,

Freshwater, NSW, 2096

Lot/DP Lot DP 14450

NCC class'

G of 3 floors Floor/all Floors New Home Type

Plans

Main plan

Prepared by Watershed Architects

Construction and environment

Assessed floor area [m2]* Conditioned*

251.6

Unconditioned* 32.1

Total 335.9

Garage 52.3 Exposure type

Suburban

NatHERS climate zone

56 Mascot (Sydney Airport)



Danielle Grumont **Business** name Green Future Group

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0412957655 Accreditation No. HERA10134

Assessor Accrediting Organisation

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.au

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

Thermal performance Star rating



NATIONWIDE

29.7 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	20.6	9.1
Load limits	N/A	N/A

Features determining load limits

Floor Type (lowest conditioned area) NCC climate zone 1 or 2 No Outdoor living area No Outdoor living area ceiling fan

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=GiRmVNHoB 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

Νo

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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H	OΙ	ÿsi

Certificate check	Approva	l Stage	Construct Stage	ction	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Asses	Conse	Builde	Conse	Occup
Genuine certificate check		1	<u>'</u>		
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					

7 5	Star	Rating	as	of	11	Feb	2025
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HOUSE	

	Approva	I Stage	Stage	ction	
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not included)	ıded in tl	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 I	NatHERS	assessi	ment)		
Does the lighting meet the artificial lighting requirements specified in the NCC?					
Does the hot water system meet the additional requirements specified in the NCC?					
Provisional values* check					
Have provisional values* been used in the assessment and, if so, are they noted in 'Additional notes' table below?					
Other NCC requirements					
Note: This Certificate only covers the energy efficiency requirements in the NCC. Addibut are not limited to: condensation, structural and fire safety requirements and any structural equirements.					
Additional notes					



Room schedule

Room	Zone Type	Area [m²]
Garage	Garage	52.26
Plant Store	Unconditioned	9.52
Lift LGF	Daytime	2.06
Entry	Daytime	17.22
Lift GF	Daytime	2.15
Stair GF	Daytime	11.76
Kitch/Dine/Liv	Kitchen/Living	64.45
Lift FF	Daytime	1.77
Void GF	Unconditioned	5.63
Pantry	Daytime	4.69
Laundry	Unconditioned	6.53
Rumpus	Living	19.77
Powder GF	Daytime	4.36
Study	Daytime	16.73
Hall/Stair FF	Daytime	17.84
Bath FF	Unconditioned	10.34
Ensuite Bed 1	Nighttime	7
WIR Bed 1	Nighttime	10.93
Bedroom 01	Bedroom	19.82
Bedroom 02	Bedroom	19.1
Bedroom 03	Bedroom	17.44
Bedroom 04	Bedroom	17.11
Void FF	Unconditioned	5.67
Hall GF	Daytime	5.86

Window and glazed door type and performance

Default windows*

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



Custom windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges			
willdow iD	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit		
BRZ-011- 003	Aluminium Louvre Window DG 6CEG1224/101/6CEG1224	2.4	0.10	0.10	0.11		
A&L-026- 302	Aluminium Fixed Window DG 4PbAS2/12Ar/4PbG	1.8	0.48	0.45	0.50		
REY-027- 006	Aluminium Sliding Door DG LB Clr 6/24/6	1.8	0.47	0.45	0.49		
DOW-022- 007	Thermally Broken Aluminium Sliding Window DG LB Clr 4/12/4	2.0	0.51	0.48	0.53		
SCH-055- 007	Thermally Broken Aluminium Fixed Window TG AGG MAX + PLUS Clr 6/10/4/8/4	1.2	0.21	0.20	0.22		
ANE-015- 321	Thermally Broken Aluminium Double Hung Window DG 4PtOne/12Ar/6Clr	1.9	0.38	0.36	0.40		

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Entry	BRZ-011-003-001	W1.01A	2500	600	Louvre	90	N	No
Stair GF	A&L-026-302-002	W2.01A	2800	1500	Fixed	00	N	No
Stair GF	BRZ-011-003-001	W2.01A	2800	700	Louvre	90	N	No
Stair GF	BRZ-011-003-001	W2.06A	2060	790	Louvre	90	S	No
Kitch/Dine/Liv	REY-027-006-001	D2.07A	2800	5900	Sliding	75	N	Yes
Kitch/Dine/Liv	DOW-022-007-001	W22	1835	4600	Sliding	60	W	Yes
Pantry	BRZ-011-003-001	W2.03A	1550	500	Louvre	90	S	No
Laundry	BRZ-011-003-001	W2.04A	1550	650	Louvre	90	W	No
Rumpus	BRZ-011-003-001	W21	2500	900	Louvre	90	E	No
Rumpus	SCH-055-007-001	D2.01A	2800	4800	Sliding	60	S	No
Rumpus	BRZ-011-003-001	W2.05A	2500	900	Louvre	90	W	No
Study	DOW-022-007-001	W3.14A	1400	2800	Sliding	45	E	No
Study	ANE-015-321-003	W3.13A	2200	1800	Double Hung	45	S	Yes
Hall/Stair FF	BRZ-011-003-001	W Stair FF	2500	750	Louvre	90	N	No
Hall/Stair FF	BRZ-011-003-001	W2.15A	1678	790	Louvre	90	S	No
Bath FF	DOW-022-007-001	W3.08A	1500	2400	Sliding	45	W	No
Ensuite Bed 1	BRZ-011-003-001	W3.04A	2500	900	Louvre	90	N	Yes
Ensuite Bed 1	BRZ-011-003-001	W3.05A	1500	800	Louvre	90	W	No

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Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
WIR Bed 1	BRZ-011-003-001	W3.06A louvre	1500	800	Louvre	45	W	No
WIR Bed 1	A&L-026-302-002	W3.06A fixed	1500	800	Fixed	00	W	No
Bedroom 01	REY-027-006-001	D3.06A	2500	4000	Sliding	60	N	Yes
Bedroom 01	ANE-015-321-003	W3.03A	2500	2000	Double Hung	30	E	No
Bedroom 01	BRZ-011-003-001	W3.02A	2500	750	Louvre	45	E	No
Bedroom 02	DOW-022-007-001	W3.07A	1500	2400	Sliding	45	W	Yes
Bedroom 03	ANE-015-321-003	W3.09	2500	800	Double Hung	30	S	No
Bedroom 03	ANE-015-321-003	W3.09A	2500	800	Double Hung	30	W	No
Bedroom 04	BRZ-011-003-001	W3.12A	1500	3000	Louvre	45	S	No
Bedroom 04	ANE-015-321-003	W3.11A	2500	800	Double Hung	30	W	No

Roof window* type and performance value

W3.12A Void

A&L-026-302-002

Default roof windows*

Void FF

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

2500 1300 Fixed

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Ν

No

Custom roof windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
Window ID	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	
_	VEL-011-02 W VELUX				_	
	FS - Fixed Skylight DG					
VEL-011-02 W	3mm LoE 366 /	2.7	0.24	0.23	0.25	
	10.5mm Argon Gap /					
	3mm Clear					

Roof window* schedule

Location	Window ID	Window no.	Opening %	Height [mm]	Width [mm]	Orientation	Outdoor shade	Indoor shade
Bath FF	VEL-011-02 W	SK Bath	0	1100	550	W	Yes	Yes
WIR Bed 1	VEL-011-02 W	SK WIR	0	1100	550	W	Yes	Yes
Bedroom 02	VEL-011-02 W	SK Bed 02	0	600	600	W	Yes	Yes



Defication

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 Orientation [m²]	Outdoor shade	Diffuser
				-	•	

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2400	6000	90	N	
Entry	2500	1600	90	N	
Laundry	2040	820	90	W	

14/-11

External wall type

Wall ID	Wall type	Solar Wall shade absorptance [colour]	Bulk insulation [R-value]	wall wrap*
EW- 1	Cavity Brick	0.30	No insulation	No
EW- 2	Cavity Brick	0.30	Foil reflective both sides of the Bulk Insulation R1.5	Yes
EW-	Cavity Brick	0.85	Foil reflective both sides of the Bulk Insulation R1.5	Yes
EW-	Fibro Timber Stud Frame Panel Direct Fix	0.85	Bulk Insulation R2.7	No
EW- 5	Fibro Timber Stud Frame Panel Direct Fix	0.50	Bulk Insulation R2.7	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	2700	6050	N	3300	No
Garage	EW-1	2700	3200	E	50	No
Garage	EW-1	2700	2690	S	100	No
Garage	EW-1	2700	7325	W	100	No
Plant Store	EW-1	2700	3195	S	100	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Plant Store	EW-1	2700	3125	W	100	No
Lift LGF	EW-2	2700	1545	E	50	No
Lift LGF	EW-2	2700	1400	S	50	No
Lift LGF	EW-2	2700	1545	W	50	No
Entry	EW-2	2700	2300	N	1500	No
Entry	EW-2	2700	5800	E	50	No
Entry	EW-2	2700	1900	E	50	No
Entry	EW-2	2700	950	S	100	No
Entry	EW-2	2700	245	W	50	No
Lift GF	EW-3	2800	1595	E	50	No
Lift GF	EW-2	2800	1395	S	7700	No
Stair GF	EW-2	2800	2345	N	500	No
Stair GF	EW-2	800	7700	E	0	No
Stair GF	EW-4	2000	7700	E	50	No
Stair GF	EW-2	700	950	S	0	No
Stair GF	EW-5	2100	950	S	150	No
Kitch/Dine/Liv	EW-2	2800	6050	N	3650	Yes
Kitch/Dine/Liv	EW-2	1600	2300	E	0	No
Kitch/Dine/Liv	EW-5	1200	2300	E	100	No
Kitch/Dine/Liv	EW-4	2800	350	E	2600	No
Kitch/Dine/Liv	EW-5	1800	1505	S	9350.00835561124	No
Kitch/Dine/Liv	EW-2	2800	10295	W	50	No
Lift FF	EW-2	2500	1545	Е	25	No
Lift FF	EW-2	2500	550	S	8100	No
Pantry	EW-4	1000	850	S	0	No
Pantry	EW-5	1800	850	S	175	No
Pantry	EW-2	2800	2595	W	50	No
Laundry	EW-4	2800	1840	W	100	No
Rumpus	EW-4	2800	3845	E	850	No
Rumpus	EW-4	2800	5200	S	1050	No
Rumpus	EW-4	2800	3845	W	100	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Rumpus	EW-4	1800	3800	N	18400.0382132755	No
Study	EW-4	2500	7645	E	350	No
Study	EW-4	2500	2145	S	400	No
Hall/Stair FF	EW-4	2500	1045	N	100	No
Hall/Stair FF	EW-4	2500	6050	E	50	No
Hall/Stair FF	EW-4	2500	950	S	150	No
Bath FF	EW-4	2500	2440	W	300	No
Ensuite Bed 1	EW-4	2500	1745	N	1812	Yes
Ensuite Bed 1	EW-4	2500	4095	W	300	No
WIR Bed 1	EW-4	2500	2390	W	300	No
Bedroom 01	EW-4	2500	4295	N	1838	Yes
Bedroom 01	EW-4	2500	5945	E	100	No
Bedroom 02	EW-4	2500	4140	W	300	No
Bedroom 03	EW-4	2500	850	S	150	No
Bedroom 03	EW-4	2500	3745	W	300	No
Bedroom 04	EW-4	2500	3895	S	400	No
Bedroom 04	EW-4	2500	4445	W	100	No
Void FF	EW-4	2500	1290	N	100	No
Hall GF	EW-2	2800	2795	E	850	No

Internal wall type

Wall II	DWall type	Area [m²]	Bulk insulation
IW- 001	Tilt Concrete	8.78	No insulation
IW- 002	Cavity Brick	0.00	Foil Anti-glare one side and Reflective other of the Bulk Insulation R1.5
IW- 003	Cavity Brick	9.63	No insulation
IW- 004	Timber Stud Frame, Direct Fix Plasterboard	227.05	No insulation
IW- 005	Timber Stud Frame, Direct Fix Plasterboard	23.10	Bulk Insulation, No Air Gap R2



Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage	Concrete Slab on Ground 250mm	52.26	None	No Insulation	Bare
Plant Store	Concrete Slab on Ground 250mm	9.52	None	No Insulation	Bare
Lift LGF	Concrete Slab on Ground 250mm	2.06	None	Bulk Insulation in Contact with Floor R1.5	Bare
Entry	Concrete Slab on Ground 250mm	17.22	None	Bulk Insulation in Contact with Floor R1.5	Ceramic Tiles 8mm
Lift GF / Lift LGF	Concrete Timber Framed Above Plasterboard 250mm	0.35		No Insulation	Bare
Stair GF / Entry	Concrete Timber Framed Above Plasterboard 250mm	9.05		No Insulation	Cork Tiles or Parquetry 8mm
Kitch/Dine/Liv / Garage	Concrete Timber Framed Above Plasterboard 250mm	49.94		Bulk Insulation R2	Cork Tiles or Parquetry 8mm
Kitch/Dine/Liv / Plant Store	Concrete Timber Framed Above Plasterboard 250mm	9.94		Bulk Insulation R2	Cork Tiles or Parquetry 8mm
Kitch/Dine/Liv	Concrete Slab on Ground 250mm	3.65	None	Bulk Insulation in Contact with Floor R1.5	Cork Tiles or Parquetry 8mm
Lift FF / Lift GF	Timber Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2	Bare
Void GF / Entry	Concrete Timber Framed Above Plasterboard 250mm	2.75		No Insulation	Cork Tiles or Parquetry 8mm
Pantry	Concrete Slab on Ground 250mm	4.69	None	Bulk Insulation in Contact with Floor R1.5	Cork Tiles or Parquetry 8mm
Laundry	Concrete Slab on Ground 250mm	6.53	None	Bulk Insulation in Contact with Floor R1.5	Ceramic Tiles 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Rumpus	Concrete Slab on Ground 250mm	19.77	None	Bulk Insulation in Contact with Floor R1.5	Cork Tiles or Parquetry 8mm
Powder GF	Concrete Slab on Ground 250mm	4.36	None	Bulk Insulation in Contact with Floor R1.5	Ceramic Tiles 8mm
Study / Rumpus	Timber Framed Timber Above Plasterboard 19mm	4.53		Bulk Insulation R2	Cork Tiles or Parquetry 8mm
Study / Hall GF	Timber Framed Timber Above Plasterboard 19mm	3.82		Bulk Insulation R2	Cork Tiles or Parquetry 8mm
Study	Suspended Floor Timber Frame 19mm	7.43	Totally Open	Bulk Insulation in Contact with Floor R3	Cork Tiles or Parquetry 8mm
Hall/Stair FF / Stair GF	Timber Framed Timber Above Plasterboard 19mm	5.21		Bulk Insulation R2	Cork Tiles or Parquetry 8mm
Hall/Stair FF / Kitch/Dine/Liv	Timber Framed Timber Above Plasterboard 19mm	5.80		Bulk Insulation R2	Cork Tiles or Parquetry 8mm
Hall/Stair FF / Hall GF	Timber Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2	Cork Tiles or Parquetry 8mm
Bath FF / Kitch/Dine/Liv	Timber Framed Timber Above Plasterboard 19mm	7.60		Bulk Insulation R2	Ceramic Tiles 8mm
Bath FF / Pantry	Timber Framed Timber Above Plasterboard 19mm	1.57		Bulk Insulation R2	Ceramic Tiles 8mm
Bath FF / Powder GF	Timber Framed Timber Above Plasterboard 19mm	0.41		Bulk Insulation R2	Ceramic Tiles 8mm
Ensuite Bed 1 / Kitch/Dine/Liv	Timber Framed Timber Above Plasterboard 19mm	4.11		Bulk Insulation R2	Ceramic Tiles 8mm
Ensuite Bed 1	Suspended Floor Timber Frame 19mm	2.72	Totally Open	Bulk Insulation in Contact with Floor R3	Ceramic Tiles 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
WIR Bed 1 / Kitch/Dine/Liv	Timber Framed Timber Above Plasterboard 19mm	10.93		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 01 / Kitch/Dine/Liv	Timber Framed Timber Above Plasterboard 19mm	12.72		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 01	Suspended Floor Timber Frame 19mm	6.80	Totally Open	Bulk Insulation in Contact with Floor R3	Carpet+Rubber Underlay 18mm
Bedroom 02 / Kitch/Dine/Liv	Timber Framed Timber Above Plasterboard 19mm	19.10		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 03 / Pantry	Timber Framed Timber Above Plasterboard 19mm	2.60		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 03 / Laundry	Timber Framed Timber Above Plasterboard 19mm	6.66		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 03 / Rumpus	Timber Framed Timber Above Plasterboard 19mm	1.38		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 03 / Powder GF	Timber Framed Timber Above Plasterboard 19mm	3.40		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 03	Suspended Floor Timber Frame 19mm	1.59	Totally Open	Bulk Insulation in Contact with Floor R3	Carpet+Rubber Underlay 18mm
Bedroom 04 / Rumpus	Timber Framed Timber Above Plasterboard 19mm	13.01		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 04	Suspended Floor Timber Frame 19mm	3.85	Totally Open	Bulk Insulation in Contact with Floor R3	Carpet+Rubber Underlay 18mm
Void FF / Void GF	Timber Framed Timber Above Plasterboard 19mm	5.67		Bulk Insulation R2	Cork Tiles or Parquetry 8mm
Hall GF	Concrete Slab on Ground 250mm	5.86	None	Bulk Insulation in Contact with Floor R1.5	Cork Tiles or Parquetry 8mm



Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]	
Garage	Concrete, Plasterboard with Timber Frame	No insulation		
Garage	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2		
Plant Store	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5		
Plant Store	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2		
Lift LGF	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5		
Lift LGF	Concrete Timber Framed Above Plasterboard	No Insulation		
Entry	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.5		
Entry	Concrete Timber Framed Above Plasterboard	No Insulation		
Lift GF	Plasterboard on Timber	Bulk Insulation R3.5		
Lift GF	Timber Framed Timber Above Plasterboard	Bulk Insulation R2		
Stair GF	Plasterboard on Timber	Bulk Insulation R3.5		
Stair GF	Timber Framed Timber Above Plasterboard	Bulk Insulation R2		
Kitch/Dine/Liv	Plasterboard on Timber	Bulk Insulation R3.5		
Kitch/Dine/Liv	Timber Framed Timber Above Plasterboard	Bulk Insulation R2		
Lift FF	Plasterboard on Timber	Bulk Insulation R3.5		
Void GF	Plasterboard on Timber	Bulk Insulation R3.5		
Void GF	Timber Framed Timber Above Plasterboard	Bulk Insulation R2		
Pantry	Plasterboard on Timber	Bulk Insulation R3.5		
Pantry	Timber Framed Timber Above Plasterboard	Bulk Insulation R2		
Laundry	Plasterboard on Timber	Bulk Insulation R3.5		
Laundry	Timber Framed Timber Above Plasterboard	Bulk Insulation R2		
Rumpus	Plasterboard on Timber	Bulk Insulation R3.5		
Rumpus	Timber Framed Timber Above Plasterboard	Bulk Insulation R2		
Powder GF	Plasterboard on Timber	Bulk Insulation R3.5		
Powder GF	Timber Framed Timber Above Plasterboard	Bulk Insulation R2		
Study	Plasterboard on Timber	Bulk Insulation R3.5		
Hall/Stair FF	Plasterboard on Timber	Bulk Insulation R3.5		
Bath FF	Plasterboard on Timber	Bulk Insulation R3.5		
Ensuite Bed 1	Plasterboard on Timber	Bulk Insulation R3.5		
WIR Bed 1	Plasterboard on Timber	Bulk Insulation R3.5		

0009822743-02	NatHERS Certificate 7 Star Rating as of 11 Feb 2025		HOUSE
Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Bedroom 01	Plasterboard on Timber	Bulk Insulation R3.5	
Bedroom 02	Plasterboard on Timber	Bulk Insulation R3.5	
Bedroom 03	Plasterboard on Timber	Bulk Insulation R3.5	
Bedroom 04	Plasterboard on Timber	Bulk Insulation R3.5	
Void FF	Plasterboard on Timber	Bulk Insulation R3.5	
Hall GF	Plasterboard on Timber	Bulk Insulation R3.5	
Hall GF	Timber Framed Timber Above Plasterboard	Bulk Insulation R2	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Entry	4	Downlights - LED	150	Sealed
Lift GF	1	Downlights - LED	100	Sealed
Stair GF	3	Downlights - LED	100	Sealed
Kitch/Dine/Liv	13	Downlights - LED	100	Sealed
Kitch/Dine/Liv	1	Exhaust Fans	300	Sealed
Pantry	2	Downlights - LED	100	Sealed
Laundry	2	Downlights - LED	100	Sealed
Laundry	1	Exhaust Fans	300	Sealed
Rumpus	6	Downlights - LED	100	Sealed
Powder GF	1	Downlights - LED	100	Sealed
Powder GF	1	Exhaust Fans	300	Sealed
Study	5	Downlights - LED	100	Sealed
Hall/Stair FF	5	Downlights - LED	100	Sealed
Hall/Stair FF	1	Chimneys	0	Sealed
Bath FF	3	Downlights - LED	100	Sealed
Bath FF	1	Exhaust Fans	300	Sealed
Ensuite Bed 1	2	Downlights - LED	100	Sealed
Ensuite Bed 1	1	Exhaust Fans	300	Sealed
WIR Bed 1	2	Downlights - LED	100	Sealed
Bedroom 01	5	Downlights - LED	100	Sealed
Bedroom 02	6	Downlights - LED	100	Sealed
Bedroom 03	4	Downlights - LED	150	Sealed
-				

0009822743-02 NatHERS Certificate		7 Star Rating as of 11 Feb 2025			
Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	
Bedroom 04	4	Downlights - LED	100	Sealed	
Hall GF	2	Downlights - LED	100	Sealed	

Ceiling fans

Location	Quantity	Diameter [mm]
Kitch/Dine/Liv	1	1400
Rumpus	1	1400
Study	1	1200
Bedroom 01	1	1200
Bedroom 02	1	1200
Bedroom 03	1	1200
Bedroom 04	1	1200

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Waterproofing Membrane	No Added Insulation, No air Gap	0.50	Medium
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, 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]	Thermal break [R-value]
No Data Available				

Appliance schedule

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

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

Cooling system

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

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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 capac	
No Data Available							
Onsite Renewabl	l e Energy Sch	edule					
System Type	Orientation		Syst	em Size O	r Generation	Capacity	
No Data Available							
Battery Schedule							
System Type	Size [Ba	ttery Storage (Capacity]				

No Data Available

 * Refer to glossary. Generated on 11 Feb 2025 using BERS Pro v5.2.4 (3.23) for Unit Lot 2, 90 90 Brighton Street , Freshwater , NSW , 2096



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)