Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011938362

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

Property

Address

Lot/DP NCC class' Floor/all Floors Type

FRESHWATER, NSW, 2096 Lot 15 DP 7022 1a G of 4 floors New Home

Unit B, Moore Road,

Plans

Main plan Prepared by 35 Moore Road Action Plans

Construction and environment

Assessed floor area [m2]*

Conditioned* 182.0 Unconditioned* 2.2 Total 2712 Garage 87.0

Exposure type Suburban NatHERS climate zone 56 Mascot (Sydney Airport)



Accredited assessor

Terry Chapman Name **Business name** CHAPMAN ENVIRONMENTAL SERVICES PTY LTD Email terry@cesenergy.com.au Phone 0414 265 292 Accreditation No. 20920 Assessor Accrediting Organisation ABSA Declaration of interest

Declaration completed: no conflicts

NCC Requirements

NCC provisions Strate/Territory variation Volume Two

Yes

National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings) The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au

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

NATIONWIDE

The more stars

the more energy efficient

28.9 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
Adelled	17.3	11.6
oad 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=txZcAjHEU When using either link, ensure you are visiting hstar.com.au



Thermal performance Star rating



Thermal performance rating

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

Whole of Home performance rating

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

Heating & Cooling Load Limits

Additional information

In some locations under the NCC NatHERS pathway, separate heating and cooling load limits may apply. Minimum required star ratings in northern parts of Australia may also be affected by the presence or absence of an outdoor living area and/or an outdoor living area ceiling fan. Refer to the *ABCB 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
- 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



Greenhouse gas emissions



Cost



7.1 Star Rating as of 22 May 2025

•					HOUSE
Certificate check	Approva	l Stage	Construe Stage	ction	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Assesso	Consent Surveyo	Builder o	Consent Surveyo	Occupar
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					

7.1 Star Rating as of 22 May 2025

HOUSE

					HOUSE	
	Approva	al Stage	Construction Stage			
Certificate check	cked	ority/ cked	ed	ority cked	ther	
Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other	
Additional NCC requirements for thermal performance (not inclu	uded in t	he NatHE	ERS 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 asse	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	S 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. Additional requirements that must also be satisfied include, but are not limited to: condensation, structural and fire safety requirements and any state or territory variations to the NCC energy efficiency requirements.

Additional notes



Room schedule

Room	Zone Type	Area [m ²]
Garage	Garage	65.39
Workshop	Garage	21.59
Entry Laundry	Daytime	22.97
Bedroom 1	Bedroom	14.68
L2 Stairs	Daytime	8.66
Ensuite	Nighttime	4.57
Bedroom 2	Bedroom	20.99
Ensuite 2	Nighttime	5.17
Kitchen/Living	Kitchen/Living	76.58
Powder	Unconditioned	2.17
L4 Stairs Hall	Daytime	10.85
WIR	Daytime	6.61
Master Ensuite	Nighttime	8.32
Master Bed	Bedroom	14.92

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges			
willdow ID	Description	U-value*	3160	SHGC lower limit	SHGC upper limit		
No Data Availa	able						

Custom windows*

Window ID	Window	Maximum SHGC*		Substitution tolerance ranges		
	Description	U-value*	3160	SHGC lower limit	SHGC upper limit	
BRZ-006-009	Aluminium Louvre Window SG 6Sn	4.9	0.46	0.44	0.48	
BRD-153-040	Aluminium Fixed Window DG LB Clr 4/10/4	2.7	0.53	0.51	0.56	
BRD-149-005	Aluminium Sliding Window SG 6.38CPCIr	4.6	0.60	0.57	0.63	
BRD-035-029	Aluminium Sliding Door DG LB Clr 4/10/4	2.7	0.51	0.48	0.53	
BRD-041-011	Aluminium Fixed Window SG 6.38CPCIr	4.2	0.60	0.57	0.63	



Custom windows*

Window ID	Window	ndow Maximum		Substitution tolerance ranges		
window ID	Description	U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
BRD-033-010	Aluminium Sliding Door SG 6.38CPCIr	4.3	0.60	0.57	0.62	

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Entry Laundry	BRZ-006-009-001	W23	1600	1304	Louvre	90	SW	No
Entry Laundry	BRD-153-040-001	W18	1600	2737	Fixed	00	SE	No
Bedroom 1	BRD-149-005-001	n/a	1800	3180	Sliding	30	NE	No
Bedroom 2	BRD-149-005-001	n/a	700	2650	Sliding	30	SE	No
Kitchen/Living	BRD-035-029-001	W25	2700	5132	Sliding	70	NE	No
Kitchen/Living	BRZ-006-009-001	n/a	2700	1000	Louvre	90	SE	Yes
Kitchen/Living	BRZ-006-009-001	n/a	2700	1287	Louvre	90	SW	No
Kitchen/Living	BRD-153-040-001	W20	2700	2737	Fixed	00	SE	No
Kitchen/Living	BRD-041-011-001	n/a	2700	1287	Fixed	00	NE	No
Kitchen/Living	BRD-035-029-001	W24	2700	3373	Sliding	60	SW	No
Powder	BRD-041-011-001	n/a	1518	712	Fixed	00	SE	No
L4 Stairs Hall	BRD-041-011-001	W22	2172	1304	Fixed	00	NE	No
L4 Stairs Hall	BRD-149-005-001	W26	900	1500	Sliding	10	SE	No
WIR	BRZ-006-009-001	n/a	1979	900	Louvre	90	SW	Yes
Master Ensuite	BRZ-006-009-001	n/a	400	1500	Louvre	90	SW	No
Master Bed	BRD-033-010-001	n/a	2200	2749	Sliding	45	NE	No
Master Bed	BRZ-006-009-001	n/a	2200	1200	Louvre	90	SE	Yes

Roof window* type and performance value

Default roof windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	3160	SHGC lower limit	SHGC upper limit	
	DG-Generic-02 A Clear					
DG-Generic-02	AI DG DEFAULT	4.2	0.70	0.69	1.40	
А	ROOF WINDOW	4.2	0.72	0.68	1.40	
	System 02					

* Refer to glossary. Generated on 22 May 2025 using BERS Pro v5.2.4 (3.23) for Unit B, Moore Road , FRESHWATER , NSW , 2096



Custom roof windows*

Window ID	Window	Maximum	SHGC*	Substitution tolerance ranges		
	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	
	VEL-011-01 W VELUX					
	FS - Fixed Skylight DG					
VEL-011-01 W	3mm LoE 366 / 8.5mm	2.6	0.24	0.23	0.25	
	Argon Gap / 5.36mm					
	Clear La					

Roof window* schedule

Location	Window ID	Window no.	Opening %	Height [mm]	Width [mm]	Orientation	Outdoor shade	Indoor shade
L4 Stairs Hall	VEL-011-01 W	S9	0	780	780	SE	Yes	Yes
L4 Stairs Hall	DG-Generic-02 A	S10	0	780	780	SE	Yes	Yes
WIR	VEL-011-01 W	S11	0	780	780	SE	Yes	Yes
Master Ensuite	VEL-011-01 W	S12	0	1100	1396	SW	Yes	Yes

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
No Data Available		

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m²] O	Drientation	Outdoor shade	Diffuser
No Data Availa	able						

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Garage	2340	3760	90	NE
Entry Laundry	2700	1210	90	NE

External wall type

Wall ID		Wall Solar shade absorptance [colo	Bulk insulation e [R-value] ur]	Reflective wall wrap*
EW- 1	Tilt up Concrete	0.30	No insulation	No
EW- 2	Cavity Brick	0.30	Bulk Insulation R1.1	No

* Refer to glossary. Generated on 22 May 2025 using BERS Pro v5.2.4 (3.23) for Unit B, Moore Road , FRESHWATER , NSW , 2096

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Wall ID	Wall type	Wall Solar shade absorptance [colour]	Bulk insulation [R-value]	Reflective wall wrap*	
EW- 3	Tilt Up Concrete, Lined Timber Stud Frame	0.30	Bulk Insulation R2.5	No	
EW- 4	Cavity Brick	0.50	Bulk Insulation R1.1	No	
EW- 5	Tilt Up Concrete, Lined Timber Stud Frame	0.50	Bulk Insulation R2.5	No	
EW- 6	Fibro Timber Stud Frame Panel on Battens	0.30	Foil, Anti-glare one side + Bulk Insulation 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	2400	5800	NE	0	No
Garage	EW-1	2400	8900	SE	0	No
Garage	EW-1	2400	1495	SE	0	No
Workshop	EW-1	2400	4695	SE	0	No
Workshop	EW-1	2400	5800	SW	0	No
Entry Laundry	EW-2	2700	1500	NE	4500	No
Entry Laundry	EW-3	2700	2900	SE	0	No
Entry Laundry	EW-4	1000	1600	SW	0	No
Entry Laundry	EW-4	1700	1600	SW	3100	No
Entry Laundry	EW-2	1000	3100	SE	0	No
Entry Laundry	EW-4	1700	3100	SE	0	No
Entry Laundry	EW-3	2700	1600	NE	3100	No
Entry Laundry	EW-3	2700	1595	SE	0	No
Bedroom 1	EW-2	2700	4600	NE	1600	No
Bedroom 1	EW-2	2700	1300	SE	1200	No
Bedroom 1	EW-2	2700	1623	SE	1373	No
Bedroom 2	EW-3	2700	4595	SE	0	No
Bedroom 2	EW-3	1000	4195	SW	0	No
Bedroom 2	EW-5	1700	4195	SW	0	No
Ensuite 2	EW-3	2700	1595	SW	0	No
Kitchen/Living	EW-2	2700	5800	NE	1700	No
Kitchen/Living	EW-3	2700	5200	SE	0	No

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7.1 Star Rating as of 22 May 2025



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Kitchen/Living	EW-2	2700	1600	SW	3100	No
Kitchen/Living	EW-2	2700	3100	SE	0	No
Kitchen/Living	EW-3	2700	1600	NE	3100	No
Kitchen/Living	EW-3	2700	1595	SE	0	No
Kitchen/Living	EW-3	2700	2995	SE	0	No
Kitchen/Living	EW-2	2700	5800	SW	0	No
Powder	EW-3	2700	1590	SE	0	No
L4 Stairs Hall	EW-6	2400	1995	NE	300	No
L4 Stairs Hall	EW-6	2400	6200	SE	300	No
L4 Stairs Hall	EW-6	2400	1195	SW	300	No
WIR	EW-6	2400	495	SW	300	No
WIR	EW-6	2400	200	NW	4100	No
WIR	EW-6	2400	1000	SW	500	No
WIR	EW-6	2400	627	SW	419	No
Master Ensuite	EW-6	2400	2495	SW	300	No
Master Bed	EW-6	2400	3800	NE	600	No
Master Bed	EW-6	2400	1595	SE	400	No

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Concrete Panel/Blocks filled, plasterboard	106.80	No Insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	140.75	No insulation

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Garage	Concrete Slab on Ground 100mm	65.39	None	No Insulation	Bare
Workshop	Concrete Slab on Ground 100mm	21.59	None	No Insulation	Bare
Entry Laundry / Garage	Concrete Timber Framed Above Plasterboard 150mm	22.81		Bulk Insulation R2.3	Cork Tiles or Parquetry 8mm

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Leasting	Construction	Area	Sub-floor	Added	House
Location	Construction	[m²]	ventilation	insulation [R-value]	Covering
Bedroom 1 / Garage	Concrete Timber Framed Above Plasterboard 150mm	14.63		Bulk Insulation R2.3	Cork Tiles or Parquetry 8mm
L2 Stairs / Garage	Concrete Timber Framed Above Plasterboard 150mm	2.45		Bulk Insulation R2.3	Cork Tiles or Parquetry 8mm
Ensuite / Garage	Concrete Timber Framed Above Plasterboard 150mm	4.57		Bulk Insulation R2.3	Ceramic Tiles 8mm
Bedroom 2 / Garage	Concrete Timber Framed Above Plasterboard 150mm	4.69		Bulk Insulation R2.3	Cork Tiles or Parquetry 8mm
Bedroom 2 / Workshop	Concrete Timber Framed Above Plasterboard 150mm	15.96		Bulk Insulation R2.3	Cork Tiles or Parquetry 8mm
Ensuite 2 / Workshop	Concrete Timber Framed Above Plasterboard 150mm	5.16		Bulk Insulation R2.3	Ceramic Tiles 8mm
Kitchen/Living / Entry Laundry	Concrete Timber Framed Above Plasterboard 150mm	19.98		No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living / Bedroom 1	Concrete Timber Framed Above Plasterboard 150mm	8.54		No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living / L2 Stairs	Concrete Timber Framed Above Plasterboard 150mm	5.45		No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living / Ensuite	Concrete Timber Framed Above Plasterboard 150mm	1.24		No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living / Bedroom 2	Concrete Timber Framed Above Plasterboard 150mm	15.49		No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living / Ensuite 2	Concrete Timber Framed Above Plasterboard 150mm	1.78		No Insulation	Cork Tiles or Parquetry 8mm
Kitchen/Living	Suspended Concrete Slab 150mm	2.81	Totally Open	Bulk Insulation in Contact with Floor R2.3	Cork Tiles or Parquetry 8mm
Powder / Bedroom 2	Concrete Timber Framed Above Plasterboard 150mm	2.17		No Insulation	Ceramic Tiles 8mm
L4 Stairs Hall / Kitchen/Living	Concrete Timber Framed Above Plasterboard 150mm	5.76		No Insulation	Cork Tiles or Parquetry 8mm
L4 Stairs Hall / Powder	Concrete Timber Framed Above Plasterboard 150mm	0.00		No Insulation	Cork Tiles or Parquetry 8mm
WIR / Kitchen/Living	Concrete Timber Framed Above Plasterboard 150mm	6.60		No Insulation	Cork Tiles or Parquetry 8mm
Master Ensuite / Kitchen/Living	Concrete Timber Framed Above Plasterboard 150mm	8.32		No Insulation	Cork Tiles or Parquetry 8mm
Master Bed / Kitchen/Living	Concrete Timber Framed Above Plasterboard 150mm	14.89		No Insulation	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 R2.3	
Workshop	Concrete Timber Framed Above Plasterboard	Bulk Insulation R2.3	
Entry Laundry	Concrete Timber Framed Above Plasterboard	No Insulation	
Bedroom 1	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.3	
Bedroom 1	Concrete Timber Framed Above Plasterboard	No Insulation	
L2 Stairs	Concrete Timber Framed Above Plasterboard	No Insulation	
Ensuite	Concrete Timber Framed Above Plasterboard	No Insulation	
Bedroom 2	Concrete Timber Framed Above Plasterboard	No Insulation	
Ensuite 2	Concrete Timber Framed Above Plasterboard	No Insulation	
Kitchen/Living	Concrete, Plasterboard with Timber Frame	Bulk Insulation R2.3	
Kitchen/Living	Concrete Timber Framed Above Plasterboard	No Insulation	
Powder	Concrete Timber Framed Above Plasterboard	No Insulation	
L4 Stairs Hall	Plasterboard on Timber	Bulk Insulation R6	
WIR	Plasterboard on Timber	Bulk Insulation R6	
Master Ensuite	Plasterboard on Timber	Bulk Insulation R6	
Master Bed	Plasterboard on Timber	Bulk Insulation R6	

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Entry Laundry	4	Downlights - LED	150	Sealed
Entry Laundry	1	Exhaust Fans	300	Sealed
Bedroom 1	3	Downlights - LED	150	Sealed
L2 Stairs	1	Downlights - LED	150	Sealed
Ensuite	1	Downlights - LED	150	Sealed
Ensuite	1	Exhaust Fans	300	Sealed
Bedroom 2	3	Downlights - LED	150	Sealed
Ensuite 2	1	Downlights - LED	150	Sealed
Ensuite 2	1	Exhaust Fans	300	Sealed
Kitchen/Living	16	Downlights - LED	150	Sealed

7.1 Star Rating as of 22 May 2025



Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
Powder	1	Downlights - LED	150	Sealed
Powder	1	Exhaust Fans	300	Sealed
L4 Stairs Hall	2	Downlights - LED	150	Sealed
WIR	1	Downlights - LED	150	Sealed
Master Ensuite	1	Downlights - LED	150	Sealed
Master Ensuite	1	Exhaust Fans	300	Sealed
Master Bed	2	Downlights - LED	150	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Kitchen/Living	2	1400
Master Bed	1	1400

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Waterproofing Membrane	No Added Insulation, No air Gap	0.50	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]	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 type	Minimum efficiency/ performance	Recommended capacity	
No Data Available					

Appliance/ system type	Lo	cation Fu	uel type	eff	nimum iciency/ ormance		mended acity
No Data Available							
Hot water system							
Appliance/ system type	Fuel type	Hot Water CER Zone	Minimum efficiency /STC	Zone 3 STC		ibstitution e ranges upper limit	Assesse daily load [litres]
No Data Available							
Pool/spa equipment							
Appliance/ system type		Fuel type		Minimu efficienc performa	cy/	Recomm capad	
No Data Available							

System Type	Orientation	System Size Or Generation Capacity
No Data Available		

Battery Schedule

System Type	Size [Battery Storage Capacity]
No Data Available	



Explanatory notes

About this report

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

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

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

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

Accredited assessors

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

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

are not quality assured.

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

Disclaimer

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

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

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

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

Glossary

Annual energy load the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions. Assessed floor area the floor area modelied in the software for the purpose of the NaHERS assessment. Note, this may not be consistent with the floor area in the design documents. Ceiling penetrations Eastures that require a penetration to the ceiling, including downlights, wents, exhaust fans, range hoods, chinneys and flues. Exhaust fans, trange hoods, chinneys and flues. The ceiling with small holes through the ceiling to winning, e.g. ceiling fans, pendari flues, and ceiling and cooling based on standard occupancy assumptions. In some crumstances it will include gradges. Conditioned a zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some crumstances it will include gradges. Custom windows Bindows based in NaHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Window, Btate in a specific type of window product and whose properties have been derived by statistical methods. ER Energy Efficiency Ratio, measure of now much cooling can be achieved by an air conditioner for a single Wh of electricity input Engry use The rel cost is tooling but not limited to costs to the building user, the environment and energy networks (as defined on the ABCB Housing Provisions Standard). Entrance door the selectify tryeliation benefits in the modelled to costs to the building user, the environment and energy networks (as defined on the ABCB Housing Provisions Standard).	AFRC	Australian Fenestration Rating Council
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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)	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).
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