Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. #HR-NXOU93-01

28 Fairview Avenue, Roselands, NSW,

Generated on 30 Jan 2025 using Hero 4.1 (Chenath v3.23)

Property

Address Lot/DP NCC Class* Floor/all Floors Type

Lot 93/DP 12431 1a 1 of 2 floors New

2196

Plans

Main Plan Prepared by 29917359 Clarendon Homes/MTK

Construction and environment

Assessed floor a	rea (m²)*
Conditioned*	257.3
Unconditioned*	29.8
Total	320.9
Garage	33.8
Garage	33.8

Suburban NatHERS climate zone 56 - Mascot AMO

Exposure Type



Accredited assessor

Name	Fadi Sweis
Business name	Energy Ratings Australia Pty Ltd
Email	fsweis@eraservices.com.au
Phone	+61 410321100
Accreditation No.	20390
Assessor Accrediting	ABSA
Organisation	
Declaration of interest	No Conflict of Interest

NCC Requirements

BCA provisions

State/Territory variation Yes

National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J2D2(2)(a) and (3) of NCC Volume One.

Volume 2

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



The more stars

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	15.0	14.7
Load limits	25	18

Features determining load limits

Floor type (lowest conditioned area) CSOG NCC climate zone 1 or 2 N Outdoor living area N Outdoor living area ceiling fan N

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 http://www.hero-software.com

au/pdf/HR-NXOU93-01. When using either link, ensure you are visiting http://www.hero-software. com.au



NATIONWIDE HOUSE

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.

Heating and 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: NatHERS heating and cooling load limits* for details or contact the relevant local building regulating authority, noting that State and Territory variations may also apply.

Setting options:

Floor type:

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

NCC climate Zone 1 or 2:

Yes

No

NA - Not Applicable

Outdoor living area:

Yes

No

NA - Not Applicable

Outdoor living area ceiling fan:

- Yes
- No

NA - Not Applicable

Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.



Shows the contribution each appliance has on the home's annual energy use, greenhouse gas emissions and cost without solar.

Energy use:



Greenhouse gas emissions:

Cost:





7.0 Star	Rating	as of	f 30	Jan	2025
7.0 Otal	runng	40.01	00	oun	2020



Certificate check	Approva	l stage	Construc stage	tion	อังสุด (1 มี มากรับ หรือเหม
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 who should check each item. It is not mandatory to complete this checklist.	Asset	Consent surveyor	Builde	Conse surve	Occul
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 <i>Window and glazed door</i> <i>schedule</i> ' and <i>'Roof window schedule</i> ' 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 ' <i>External wall type table</i> ' on this Certificate?					
Does the external wall shade (colour) match what is shown in the ' <i>External wall type</i> ' 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 <i>'Floor type'</i> 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 <i>'Ceiling type'</i> table on this Certifi cate?					
Roof					
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the <i>'Roof type'</i> 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 on the NatHERS-stamped plans?					

7.0 Star Rating as of 30 Jan 2025



Certificate check	Approval	stage	Construc stage	tion	Indeko akino, Kustak
Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other

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

Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method					
Has the insulation been installed according to the NCC requirements?					
Building sealing					
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Hom	e assessr	ment is no	ot conduc	cted)	
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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 ' <i>Appliance schedule</i> ' 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 NatHE	RS asses	ssment)			
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. A include, but are not limited to: condensation, structural and fire safety requirements					

energy efficiency requirements.



Room schedule

Room	Zone Type	Area (m²)
Kitchen/Family/Dining	Kitchen/Living	60.32
WIP	Day Time	8.46
Entry/Hallway	Day Time	26.49
P'dr	Unconditioned	5.24
Guest Room	Bedroom	15.72
L'dry	Unconditioned	7.26
Garage	Garage	33.80
Leisure/Hall/Stairs	Living	59.43
Bed 1	Bedroom	19.08
Bed 2	Bedroom	15.53
Bed 3	Bedroom	12.22
Bed 4	Bedroom	12.93
Bed 5	Bedroom	12.73
WIR (Bed 1)	Night Time	8.87
WIR (Bed 2)	Night Time	3.82
WIR (Bed 3)	Night Time	2.49
WIR (Bed 4)	Night Time	2.69
Ensuite (Bed 1)	Night Time	9.11
WC	Unconditioned	2.80
Bath	Unconditioned	9.89
WC	Unconditioned	2.64
Store	Unconditioned	1.97



Window and glazed door type and performance

Default* windows

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

None

Custom* windows

Window ID	Window Description	Maximum	SHGC*	SHGC substitution tolerance ranges		
	•	U-value*		lower limit	upper limit	
WID-004-013	HORIZON Entry Frame/Door - Single Glazed	4.65	0.50	0.48	0.53	
WID-101-001	Horizon Awning Window	6.36	0.66	0.62	0.69	
WID-101-002	Horizon Awning Window	3.35	0.49	0.46	0.51	
WID-102-001	Horizon Sliding Window	6.31	0.76	0.72	0.79	
WID-102-005	Horizon Sliding Window	4.52	0.63	0.60	0.66	
WID-102-021	Horizon Sliding Window	3.31	0.51	0.49	0.54	
WID-106-020	Horizon Fixed Window	2.31	0.59	0.56	0.62	
WID-123-022	Paragon Sliding Door	3.40	0.48	0.45	0.50	
WID-124-022	Paragon Stacking Door	3.44	0.49	0.46	0.51	

Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
Bath	WID-102-001	ASW1215 Bath	1200	1500	Sliding	45	NW	None
Bed 1	WID-004-013	AEU2109 Bed 1	2100	900	Hinged Door	90	SW	None
Bed 1	WID-101-002	AAW1307 Bed 1	1300	700	Awning	90	SW	None
Bed 1	WID-101-002	AAW1307 Bed 1	1300	700	Awning	90	SW	None
Bed 2	WID-102-005	ASW1021 Bed 2	1000	2100	Sliding	45	NE	None
Bed 3	WID-102-005	ASW0624 Bed 3	600	2400	Sliding	45	NE	None
Bed 4	WID-102-005	ASW1021 Bed 4	1000	2100	Sliding	45	NE	None
Bed 5	WID-102-005	ASW1021 Bed 5	1000	2100	Sliding	45	SE	None
Ensuite (Bed 1)	WID-102-001	ASW1212 Ens (Bed 1)	1200	1200	Sliding	45	SE	None



Window and glazed door schedule

Location	Window ID	Window no.	Height (mm)	Width (mm)	Window type	Opening %	Orient- ation	Shading device*
Entry/Hallway	WID-123-022	ASD2436 Hallway	2400	3600	Sliding Door	45	NW	None
Garage	WID-102-001	ASW0615 Garage	600	1500	Sliding	45	SE	None
Guest Room	WID-101-002	AAW2007 Guest Room	2000	700	Awning	90	SW	None
Guest Room	WID-101-002	AAW2007 Guest Room	2000	700	Awning	90	SW	None
Guest Room	WID-101-002	AAW2007 Guest Room	2000	700	Awning	90	SW	None
Guest Room	WID-102-021	ASW0626 Guest Room	600	2600	Sliding	45	NW	None
Kitchen/Family/Dining	WID-102-021	ASW2008 Family	2000	800	Sliding	30	NW	None
Kitchen/Family/Dining	WID-102-021	ASW2008 Family	2000	800	Sliding	30	NW	None
Kitchen/Family/Dining	WID-106-020	XAF4-3N Kitchen	715	2650	Fixed	0	SE	None
Kitchen/Family/Dining	WID-124-022	ASSD2438 Family	2400	3800	Sliding Door	60	NE	None
Kitchen/Family/Dining	WID-124-022	ASSD2438 Dining	2400	3800	Sliding Door	60	NE	None
L'dry	WID-102-001	ASW1315 L'dry	1300	1500	Sliding	45	SE	None
Leisure/Hall/Stairs	WID-102-021	ASW0624 Leisure	600	2400	Sliding	45	NW	None
Leisure/Hall/Stairs	WID-102-021	ASW0624 Leisure	600	2400	Sliding	45	NW	None
Leisure/Hall/Stairs	WID-101-002	AAW1307 Leisure	1300	700	Awning	90	SW	None
Leisure/Hall/Stairs	WID-101-002	AAW1307 Leisure	1300	700	Awning	90	SW	None
Leisure/Hall/Stairs	WID-101-002	AAW1307 Leisure	1300	700	Awning	90	SW	None
P'dr	WID-102-001	ASW2008 P'dr	2000	800	Sliding	30	NW	None
Store	WID-102-001	ASW0612 Store	600	1200	Sliding	45	NW	None
WC	WID-101-001	AAW1007 WC	1000	700	Awning	90	NW	None
WC	WID-102-001	ASW0612 WC	600	1200	Sliding	45	NW	None
WIP	WID-106-020	XAF4-3G WIP	715	1810	Fixed	0	SE	None
WIR (Bed 1)	WID-101-002	AAW1307 WIR	1300	700	Awning	90	SW	None



Roof window type and performance value

Default* roof windows

Window ID	erault* root windows /indow ID Window Description				Maximum	SHGC*	SHGC substitution tolerance ranges		
	Windo		•			U-value*	onee	lower limit	upper limit
None									
Custom* roof v	windows								- 414 - 141 - 1-
Window ID	Windo	w Descriptior	1			Maximum	SHGC*	SHGC sub tolerance r	
		•				U-value*		lower limit	upper limit
None									
Roof wind	low sch	edule							
Location	Wind ID	ow	Window no.	Opening %	Height (mm)	Width (mm)	Orient- ation	Outdoor shade	Indoor shade
None									
Skylight <i>t</i> y Skylight ID	pe and	performa	INCE Skylight de	scription					
None			0						
Skylight <i>s</i>	chedule)							
Location	Skylight ID	Skylight No.	Skylight shaft length (mm)		Orient- ation	Outdoor shade	Diffuser	Shaft Reflec	tance
None									
External d	loor sch	nedule							
Location			Height	(mm)	Width (m	m) Op	ening %	Orien	tation
Entry/Hallway			2457		1266	90		SW	
Garage			2400		4810	100)	SW	
			2340		820	90		SE	
Store									

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
BV-STEEL FRAME-WALL WRAP-A	Brick Veneer Steel Stud Wall with Wall Wrap	0.50	Medium	2.50	Yes
BV-STEEL FRAME-WALL WRAP-B	Brick Veneer Steel Stud Wall with Wall Wrap	0.50	Medium	0.00	Yes



External wall type

Wall ID	Wall Type	Solar absorptance	Wall Colour	Bulk insulation (R-value)	Reflective wall wrap*
DBL-BRICK-110-110	Double Brick - 110mm/110mm Exposed	0.50	Medium	0.00	No

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Bath	BV-STEEL FRAME-WALL WRAP-A	2600	3505	NW	460	Yes
Bed 1	BV-STEEL FRAME-WALL WRAP-A	2600	3996	SW	3314	Yes
Bed 2	BV-STEEL FRAME-WALL WRAP-A	2600	3899	NE	447	No
Bed 2	BV-STEEL FRAME-WALL WRAP-A	2600	3706	NW	460	Yes
Bed 3	BV-STEEL FRAME-WALL WRAP-A	2600	3123	NE	447	No
Bed 4	BV-STEEL FRAME-WALL WRAP-A	2600	3132	NE	447	No
Bed 4	BV-STEEL FRAME-WALL WRAP-A	2600	3825	SE	446	No
Bed 5	BV-STEEL FRAME-WALL WRAP-A	2600	4318	SE	446	No
Ensuite (Bed 1)	BV-STEEL FRAME-WALL WRAP-A	2600	2281	SE	446	No
Entry/Hallway	BV-STEEL FRAME-WALL WRAP-A	2750	1756	SW	4136	Yes
Entry/Hallway	BV-STEEL FRAME-WALL WRAP-A	2750	1846	NE	4576	Yes
Entry/Hallway	BV-STEEL FRAME-WALL WRAP-A	2750	5080	NW	3982	Yes
Garage	BV-STEEL FRAME-WALL WRAP-B	2825	6021	SE		No
Garage	DBL-BRICK-110-110	2825	5614	SW	1175	Yes
Garage	BV-STEEL FRAME-WALL WRAP-B	2825	1237	NW	3290	Yes
Garage	BV-STEEL FRAME-WALL WRAP-B	2825	1067	NE		Yes
Guest Room	BV-STEEL FRAME-WALL WRAP-A	2750	3811	SW	1867	Yes
Guest Room	BV-STEEL FRAME-WALL WRAP-A	2750	3818	NW		Yes
Guest Room	BV-STEEL FRAME-WALL WRAP-A	2750	2269	SE	1968	Yes
Kitchen/Family/Dining	BV-STEEL FRAME-WALL WRAP-A	2750	3811	SW	4576	Yes
Kitchen/Family/Dining	BV-STEEL FRAME-WALL WRAP-A	2750	6291	NW		Yes

External wall schedule

Location	Wall ID	Height (mm)	Width (mm)	Orient- ation	Horizontal shading feature* projection (mm)	Vertical shading feature
Kitchen/Family/Dining	BV-STEEL FRAME-WALL WRAP-A	2750	4996	SE		Yes
Kitchen/Family/Dining	BV-STEEL FRAME-WALL WRAP-A	2750	9119	NE	4652	Yes
L'dry	BV-STEEL FRAME-WALL WRAP-A	2750	2337	SE		Yes
Leisure/Hall/Stairs	BV-STEEL FRAME-WALL WRAP-A	2600	7131	NW	460	Yes
Leisure/Hall/Stairs	BV-STEEL FRAME-WALL WRAP-A	2600	475	SW	3314	Yes
Leisure/Hall/Stairs	BV-STEEL FRAME-WALL WRAP-A	2600	1060	SE	2353	Yes
Leisure/Hall/Stairs	BV-STEEL FRAME-WALL WRAP-A	2600	3811	SW	2254	No
P'dr	BV-STEEL FRAME-WALL WRAP-A	2750	2049	NE	4576	Yes
P'dr	BV-STEEL FRAME-WALL WRAP-A	2750	2558	NW		Yes
Store	BV-STEEL FRAME-WALL WRAP-A	2600	1169	NE	452	Yes
Store	BV-STEEL FRAME-WALL WRAP-A	2600	1685	SE	8869	Yes
Store	BV-STEEL FRAME-WALL WRAP-A	2600	1685	NW	461	Yes
WC	BV-STEEL FRAME-WALL WRAP-A	2600	1877	NW	460	Yes
WC	BV-STEEL FRAME-WALL WRAP-A	2600	2261	SE	8869	Yes
WC	BV-STEEL FRAME-WALL WRAP-A	2600	2261	NW	461	Yes
WIP	BV-STEEL FRAME-WALL WRAP-A	2750	3099	SE		Yes
WIR (Bed 1)	BV-STEEL FRAME-WALL WRAP-A	2600	4776	SE	446	No
WIR (Bed 1)	BV-STEEL FRAME-WALL WRAP-A	2600	1858	SW	444	Yes
WIR (Bed 2)	BV-STEEL FRAME-WALL WRAP-A	2600	1355	NW	460	Yes
WIR (Bed 4)	BV-STEEL FRAME-WALL WRAP-A	2600	1305	SE	446	No

Internal wall type

Wall ID	Wall Type	Area (m ²)	Bulk insulation
INT-PB WALL	Internal Plasterboard Stud Wall	210.8	0.00
INT-PB WALL	Internal Plasterboard Stud Wall	21.8	2.50





Floor type

Location	Construction	Area (m²)	Sub-floor ventilation	Added insulation (R-value)	Covering
Bath	TIMB-002: Suspended Timber Floor - Lined Below	9.9	N/A	6.00	Tile (10mm)
Bed 1	TIMB-001: Suspended Timber Floor	17.5	N/A	6.00	Carpet
Bed 1	TIMB-002: Suspended Timber Floor - Lined Below	1.7	N/A	6.00	Carpet
Bed 2	TIMB-001: Suspended Timber Floor	15.5	N/A	6.00	Carpet
Bed 3	TIMB-001: Suspended Timber Floor	12.2	N/A	6.00	Carpet
Bed 4	TIMB-001: Suspended Timber Floor	12.9	N/A	6.00	Carpet
Bed 5	TIMB-001: Suspended Timber Floor	12.7	N/A	6.00	Carpet
Ensuite (Bed 1)	TIMB-001: Suspended Timber Floor	9.1	N/A	6.00	Tile (10mm)
Entry/Hallway	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	26.5	N/A	0.62	Tile (10mm)
Garage	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	33.8	N/A	0.62	Exposed
Guest Room	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	15.7	N/A	0.62	Carpet
Kitchen/Family/Dining	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	60.3	N/A	0.62	Tile (10mm)
L'dry	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	7.3	N/A	0.62	Tile (10mm)
Leisure/Hall/Stairs	TIMB-001: Suspended Timber Floor	50.3	N/A	6.00	Carpet
Leisure/Hall/Stairs	TIMB-002: Suspended Timber Floor - Lined Below	9.1	N/A	6.00	Carpet
P'dr	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	5.2	N/A	0.62	Tile (10mm)
Store	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	2.0	N/A	0.62	Exposed
WC	TIMB-001: Suspended Timber Floor	1.7	N/A	6.00	Tile (10mm)
WC	TIMB-002: Suspended Timber Floor - Lined Below	1.1	N/A	6.00	Tile (10mm)
WC	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	2.6	N/A	0.62	Exposed
WIP	WAFFLE-85: Concrete Waffle Pod Slab on Ground (85mm)	8.5	N/A	0.62	Tile (10mm)
WIR (Bed 1)	TIMB-001: Suspended Timber Floor	8.9	N/A	6.00	Carpet
WIR (Bed 2)	TIMB-001: Suspended Timber Floor	3.8	N/A	6.00	Carpet
WIR (Bed 3)	TIMB-001: Suspended Timber Floor	2.5	N/A	6.00	Carpet
WIR (Bed 4)	TIMB-001: Suspended Timber Floor	2.7	N/A	6.00	Carpet

MATION WIDE HELOUIS

Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
Bath	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
Bath	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 1	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 1	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
Bed 2	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
Bed 2	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 3	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
Bed 3	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 4	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
Bed 4	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 5	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Bed 5	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
Ensuite (Bed 1)	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Ensuite (Bed 1)	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
Garage	ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	0.00	Yes
Leisure/Hall/Stairs	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
Leisure/Hall/Stairs	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
Store	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
WC	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
WC	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
WIR (Bed 1)	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
WIR (Bed 1)	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
WIR (Bed 2)	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	3.50	Yes
WIR (Bed 2)	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes



Ceiling type

Location	Construction	Bulk insulation (R-value)	Reflective wrap*
WIR (Bed 3)	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes
WIR (Bed 4)	ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	6.00	Yes

Ceiling penetrations*

Location	Quantity	Туре	Diameter (mm)	Sealed /unsealed
None				
Ceiling fans				

Location	Quantity	Diameter (mm)
None		

Roof type

Construction	Added insulation (R-value)	Solar absorptance	Roof Colour
ATTIC-CONCTILE-01: Pitched / Attic Conc Tiled Roof (Roofspace) & Flat PB Ceiling	0.00	0.85	Dark
ATTIC-METAL-01: Pitched / Attic Metal Roof (Roofspace) & Flat PB Ceiling	1.30	0.85	Dark

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)
Wall	90 x 40	600	0.75	No
Floor	100 x 50	450	1.50	No

Appliance schedule

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

Cooling system

Туре	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Hon	ne Data			
Heating systen	n			
Туре	Location	Fuel Type	Minimum efficiency / performance	Recommended capacity
No Whole of Hon	ne Data			



Hot water system

Туре	Fuel type	Hot Water CER Zone	Minimum efficiency / STC	Assessed daily load [litres]
No Whole of Home Data				
Pool / spa equipment				
Туре	Fuel type	efficiency /		Recommended capacity
No Whole of Home Data				

Onsite Renewable Energy *schedule*

Туре	Orientatation	Generation Capacity [kW]
No Whole of Home Data		

Battery schedule

Type No Whole of Home Data Storage Capacity [kWh]



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

Glossary

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.

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.	
AFRC	Australian Fenestration Rating Council	
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.	
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.	
COP	Coefficient of performance	
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 - suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.	
Exposure category - protected	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.	
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.	
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.	
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 Regulatory	
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, continuous thermal breaks such as polystyrene insulation sheeting, plastic strips or furring channels.	
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	a device fixed to windows that provides shading e.g. window awnings or screens but excludes horizontal* or vertical shading features* (eg eaves and balconies)	

* Refer to glossary.

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