Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011515368-01

Generated on 29 Oct 2024 using BERS Pro v5.2.3 (3.23)

Property

Address 24 Beach Road,

COLLAROY, NSW, 2097

Lot/DP Lot 7 DP 6777

NCC class* 1a

Floor/all Floors G of 2 floors

Type New Home

Plans

Main plan Job For DE GAIL, Revsion 01, Dated 11/10/2024,

Sheets 1-22

Prepared by Rama Architect

Construction and environment

Assessed floor area [m2]* Exposure type
Conditioned* 376.0 Suburban

Unconditioned* 38.5

Total 414.4

NatHERS climate zone
56 Mascot (Sydney Airport)

Garage 0.0



Accredited assessor

Name Scott Douglass

Business name Efficiency Assessments Pty Ltd

 Email
 scott@ea1.com.au

 Phone
 0424630400

 Accreditation No.
 13/1547

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Declaration completed: no conflicts

NCC Requirements

NCC provisions Volume Two

Strate/Territory variation Yes

National Construction Code (NCC) requirements

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

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 HOUSE ENERGY RATING SCHEME

29.5 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

Features determining load limits

Floor Type
(lowest conditioned area)

NCC climate zone 1 or 2

Outdoor living area

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=SfeljlhKm.
When using either link,

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

Greenhouse gas emissions

No Whole of Home performance assessment conducted for this certificate

> 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

NA - Not Applicable

Outdoor Living Area Ceiling Fan:

Yes

NA - Not Applicable



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.

0011515368-01 NatHERS C	ertificat	e
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7.1 Star Rating as of 29 Oct 2024

HÖÜS	

Certificate check	Approval Stage		Construction Stage		
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Note: The boxes indicate when and by whom each item should be checked. It is not mandatory to complete this checklist.	Assess	Consei	Builder	Conse	Occup
Genuine certificate check	1	1	1	·	
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check		•			
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?					
Floor					
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Floor type' table on this certificate?					
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate?					
Roof					
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor highrise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match what is shown					

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7.1 Star Rating as of 29 Oct 2024

HOUSE	

	Approva	I Stage	Stage				
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other		
Additional NCC requirements for thermal performance (not included)	ıded in ti	he NatHE	RS asse	ssment)			
Thermal bridging							
Does the dwelling meet the NCC requirement for thermal bridging?							
Insulation installation method							
Has the insulation been installed according to the NCC requirements?							
Building sealing							
Does the dwelling meet the NCC requirements for Building Sealing?							
Whole of Home performance check (not applicable if a Whole of 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	NatHERS	assessi	nent)				
Does the lighting meet the artificial lighting requirements specified in the NCC?							
Does the hot water system meet the additional requirements specified in the NCC?							
Provisional values* check							
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 [m²]
Entry/wc	Daytime	44.07
Mud	Daytime	3.94
Guest ens	Nighttime	6.75
Guest	Bedroom	12
Guest Living	Daytime	17.94
Kitchen/Living1	Kitchen/Living	85.94
Butlers	Daytime	9.92
Laundry	Unconditioned	8.51
Hall	Daytime	4.53
Bath 1	Unconditioned	8.4
MPR	Living	25.38
Store	Unconditioned	6.97
Hall upper	Daytime	43.24
Bed 3	Bedroom	18.14
Bath 3	Unconditioned	6.03
Master ens	Nighttime	11.13
Master	Bedroom	28.35
Wir	Nighttime	7.76
Rumpus/lounge	Living	22.22
Study	Daytime	6.34
Bath 2	Unconditioned	8.57
Bed 1	Bedroom	18.38
Bed 2	Bedroom	17.97

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum U-value*		Substitution tolerance ranges		
willdow ib	Description			SHGC lower limit	SHGC upper limit	
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E	4.1	0.52	0.49	0.55	
ALM-004-01 A	Aluminium B DG Air Fill Clear-Clear	4.8	0.59	0.56	0.62	



Default windows*

Window ID	Window Maximum		SHGC*	Substitution tolerance ranges		
	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit	
	Al Thermally Broken B				_	
ATB-004-04 B	DG Air Fill Low Solar	3.1	0.27	0.26	0.28	
	Gai					

Custom windows*

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

Window and glazed door schedule

Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Entry/wc	ALM-006-03 A	D08	2500	920	Casement	90	W	Yes
Entry/wc	ALM-006-03 A	D09	2500	7600	Sliding	70	N	Yes
Guest ens	ALM-006-03 A	W05	900	1600	Sliding	45	W	No
Guest	ALM-006-03 A	D07	2500	1800	Casement	90	W	No
Guest	ALM-004-01 A	W06	1750	500	Louvre	90	N	No
Guest Living	ALM-004-01 A	W07	1750	600	Louvre	90	N	No
Guest Living	ALM-004-01 A	W14	1750	630	Louvre	90	N	No
Guest Living	ALM-006-03 A	D08	2500	2800	Sliding	45	Е	Yes
Kitchen/Living1	ALM-006-03 A	D10	2500	4300	Sliding	45	W	Yes
Kitchen/Living1	ALM-006-03 A	W09	1750	1800	Fixed	00	N	No
Kitchen/Living1	ALM-006-03 A	W10	1750	1800	Fixed	00	N	No
Kitchen/Living1	ALM-006-03 A	D01	2500	4270	Sliding	60	Е	No
Kitchen/Living1	ALM-006-03 A	D03	2500	4270	Sliding	60	Е	No
Kitchen/Living1	ALM-006-03 A	D02	2500	1150	Casement	90	Е	No
Butlers	ALM-006-03 A	W01	1400	1500	Casement	90	S	No
Laundry	ALM-006-03 A	W02	1400	2400	Casement	90	S	No
Hall	ALM-006-03 A	D04	2500	840	Casement	90	S	No
Bath 1	ALM-006-03 A	W03	700	1800	Awning	90	S	No
MPR	ALM-006-03 A	W04	1400	2100	Casement	90	S	No
Hall upper	ATB-004-04 B	D24	2400	1200	Fixed	00	N	No
Hall upper	ATB-004-04 B	D26	2400	1200	Fixed	00	N	No

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Location	Window ID	Window no.	Height [mm]	Width Window [mm] type	Opening %	Orientation	V s d
Hall upper	ATR-004-04 R	D25	2400	7400 Fixed	00	N	

Window ID	Window no.	Height [mm]			Opening %	Orientation	Window shading device*
ATB-004-04 B	D25	2400	7400	Fixed	00	N	No
ALM-006-03 A	W12	1700	900	Fixed	00	S	No
ALM-006-03 A	W19	1700	2400	Casement	90	W	No
ALM-004-01 A	W21	1700	700	Louvre	90	N	No
ALM-004-01 A	W22	1700	700	Louvre	90	N	No
ALM-006-03 A	W23	1700	1800	Casement	90	E	No
ALM-006-03 A	W26	1700	1800	Casement	90	W	No
ALM-006-03 A	W27	1700	1800	Casement	90	N	No
ALM-006-03 A	W28	1700	1800	Casement	90	N	No
ALM-006-03 A	D11	2400	3300	Sliding	60	E	No
ALM-006-03 A	W11	2400	1200	Fixed	00	E	No
ALM-006-03 A	D12	2400	3300	Sliding	60	E	No
ALM-006-03 A	W13	1700	1600	Casement	90	S	No
ALM-006-03 A	W14	1700	900	Casement	90	S	No
ALM-006-03 A	W15	1700	2400	Casement	90	S	No
ALM-004-01 A	W16	1700	700	Louvre	90	S	No
ALM-004-01 A	W17	1700	700	Louvre	90	S	No
ALM-006-03 A	W18	1700	2400	Casement	90	W	No
	ATB-004-04 B ALM-006-03 A ALM-006-03 A ALM-004-01 A ALM-006-03 A	ID no. ATB-004-04 B D25 ALM-006-03 A W12 ALM-006-03 A W19 ALM-004-01 A W21 ALM-004-01 A W22 ALM-006-03 A W23 ALM-006-03 A W26 ALM-006-03 A W27 ALM-006-03 A W28 ALM-006-03 A D11 ALM-006-03 A W11 ALM-006-03 A W13 ALM-006-03 A W14 ALM-006-03 A W15 ALM-004-01 A W16 ALM-004-01 A W17	ID no. [mm] ATB-004-04 B D25 2400 ALM-006-03 A W12 1700 ALM-006-03 A W19 1700 ALM-004-01 A W21 1700 ALM-004-01 A W22 1700 ALM-006-03 A W23 1700 ALM-006-03 A W26 1700 ALM-006-03 A W27 1700 ALM-006-03 A W28 1700 ALM-006-03 A D11 2400 ALM-006-03 A W11 2400 ALM-006-03 A W13 1700 ALM-006-03 A W13 1700 ALM-006-03 A W14 1700 ALM-006-03 A W15 1700 ALM-004-01 A W16 1700 ALM-004-01 A W16 1700	ID no. [mm] [mm] ATB-004-04 B D25 2400 7400 ALM-006-03 A W12 1700 900 ALM-006-03 A W19 1700 2400 ALM-004-01 A W21 1700 700 ALM-004-01 A W22 1700 700 ALM-006-03 A W23 1700 1800 ALM-006-03 A W26 1700 1800 ALM-006-03 A W28 1700 1800 ALM-006-03 A W28 1700 1800 ALM-006-03 A W11 2400 3300 ALM-006-03 A W11 2400 3300 ALM-006-03 A W13 1700 1600 ALM-006-03 A W14 1700 900 ALM-006-03 A W15 1700 2400 ALM-004-01 A W16 1700 700 ALM-004-01 A W17 1700 700	ID no. [mm] [mm] type ATB-004-04 B D25 2400 7400 Fixed ALM-006-03 A W12 1700 900 Fixed ALM-006-03 A W19 1700 2400 Casement ALM-004-01 A W21 1700 700 Louvre ALM-004-01 A W22 1700 700 Louvre ALM-006-03 A W23 1700 1800 Casement ALM-006-03 A W26 1700 1800 Casement ALM-006-03 A W27 1700 1800 Casement ALM-006-03 A W28 1700 1800 Casement ALM-006-03 A W11 2400 3300 Sliding ALM-006-03 A W11 2400 3300 Sliding ALM-006-03 A W13 1700 1600 Casement ALM-006-03 A W14 1700 900 Casement ALM-006-03 A W15 1700 2400 <t< td=""><td>ID no. [mm] [mm] type % ATB-004-04 B D25 2400 7400 Fixed 00 ALM-006-03 A W12 1700 900 Fixed 00 ALM-006-03 A W19 1700 2400 Casement 90 ALM-004-01 A W21 1700 700 Louvre 90 ALM-004-01 A W22 1700 700 Louvre 90 ALM-006-03 A W23 1700 1800 Casement 90 ALM-006-03 A W26 1700 1800 Casement 90 ALM-006-03 A W28 1700 1800 Casement 90 ALM-006-03 A W28 1700 1800 Casement 90 ALM-006-03 A W11 2400 3300 Sliding 60 ALM-006-03 A W13 1700 1600 Casement 90 ALM-006-03 A W14 1700 900 Casement 90</td><td>ID no. [mm] [mm] type % Orientation ATB-004-04 B D25 2400 7400 Fixed 00 N ALM-006-03 A W12 1700 900 Fixed 00 S ALM-006-03 A W19 1700 2400 Casement 90 W ALM-004-01 A W21 1700 700 Louvre 90 N ALM-004-01 A W22 1700 700 Louvre 90 N ALM-006-03 A W23 1700 1800 Casement 90 E ALM-006-03 A W26 1700 1800 Casement 90 N ALM-006-03 A W28 1700 1800 Casement 90 N ALM-006-03 A W28 1700 1800 Casement 90 N ALM-006-03 A W11 2400 3300 Sliding 60 E ALM-006-03 A W12 2400</td></t<>	ID no. [mm] [mm] type % ATB-004-04 B D25 2400 7400 Fixed 00 ALM-006-03 A W12 1700 900 Fixed 00 ALM-006-03 A W19 1700 2400 Casement 90 ALM-004-01 A W21 1700 700 Louvre 90 ALM-004-01 A W22 1700 700 Louvre 90 ALM-006-03 A W23 1700 1800 Casement 90 ALM-006-03 A W26 1700 1800 Casement 90 ALM-006-03 A W28 1700 1800 Casement 90 ALM-006-03 A W28 1700 1800 Casement 90 ALM-006-03 A W11 2400 3300 Sliding 60 ALM-006-03 A W13 1700 1600 Casement 90 ALM-006-03 A W14 1700 900 Casement 90	ID no. [mm] [mm] type % Orientation ATB-004-04 B D25 2400 7400 Fixed 00 N ALM-006-03 A W12 1700 900 Fixed 00 S ALM-006-03 A W19 1700 2400 Casement 90 W ALM-004-01 A W21 1700 700 Louvre 90 N ALM-004-01 A W22 1700 700 Louvre 90 N ALM-006-03 A W23 1700 1800 Casement 90 E ALM-006-03 A W26 1700 1800 Casement 90 N ALM-006-03 A W28 1700 1800 Casement 90 N ALM-006-03 A W28 1700 1800 Casement 90 N ALM-006-03 A W11 2400 3300 Sliding 60 E ALM-006-03 A W12 2400

Roof window* type and performance value

Default roof windows*

Window ID	Window ID Description Llyvalue* SHGC*		Substitution to	lerance ranges	
window iD	Description	U-value*	SIGC	SHGC lower limit	SHGC upper limit
No Data Available					

Custom roof windows*

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



Roof window* schedule

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

No Data Available

Skylight* type and performance

Skylight ID	Skylight description	Skylight shaft reflectance
GEN-04-008a	Double-glazed clear, Timber and Aluminium Frame	0.5

Skylight* schedule

Location	Skylight ID	Skylight No.	Skylight shaft length [mm]	Area [m²] Orientation	Outdoor shade	Diffuser
Hall upper	GEN-04-008a	S1	1000	1.44 N	None	No

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
Store	2500	2870	90	W

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
EW-1	Cavity Brick	0.30		Bulk Insulation R2	No
EW-2	Timber Stud Frame Brick Veneer	0.30		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]
Entry/wc	EW-1	2700	1390	W	0	No
Entry/wc	EW-1	2700	11395	N	0	No
Mud	EW-1	2700	1890	W	0	No
Guest ens	EW-1	2700	1890	W	0	No
Guest	EW-1	2700	3295	W	0	No
Guest	EW-1	2700	3695	N	0	No
Guest Living	EW-1	2700	3495	N	0	No
			•			



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Guest Living	EW-1	2700	5195	E	11400	No
Kitchen/Living1	EW-1	2700	5200	W	11400	No
Kitchen/Living1	EW-1	2700	7300	N	0	No
Kitchen/Living1	EW-1	2700	11800	E	2500	Yes
Kitchen/Living1	EW-1	2700	7295	S	0	No
Butlers	EW-1	2700	2495	S	100	No
Butlers	EW-1	2700	1100	W	16100	No
Laundry	EW-1	2700	5090	S	1200	Yes
Hall	EW-1	2700	1190	S	1200	Yes
Bath 1	EW-1	2700	1100	Е	18600	No
Bath 1	EW-1	2700	2595	S	100	No
MPR	EW-1	2700	4990	S	100	No
Store	EW-1	2700	2195	S	0	No
Store	EW-1	2700	3295	W	0	No
Hall upper	EW-2	2700	1195	E	19400	No
Hall upper	EW-2	2700	11395	N	700	No
Hall upper	EW-2	2700	1190	S	700	No
Bed 3	EW-2	2700	4795	W	700	No
Bed 3	EW-2	2700	3995	N	700	No
Bath 3	EW-2	2700	2095	N	700	No
Bath 3	EW-2	2700	2995	E	700	No
Master ens	EW-2	2700	4195	W	700	No
Master ens	EW-2	2700	2695	N	700	No
Master	EW-2	2700	4595	N	700	No
Master	EW-2	2700	5495	E	700	No
Rumpus/lounge	EW-2	2700	4195	E	700	No
Rumpus/lounge	EW-2	2700	7295	S	700	No
Study	EW-2	2700	3290	S	700	No
Bath 2	EW-2	2700	4290	S	700	No
Bed 1	EW-2	2700	4790	S	700	No
Bed 2	EW-2	2700	3895	S	700	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Bed 2	EW-2	2700	4895	W	700	No

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Timber Stud Frame, Direct Fix Plasterboard	248.46	No insulation
IW-002	Timber Stud Frame, Direct Fix Plasterboard	98.04	Bulk Insulation, No Air Gap R2

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Entry/wc	Waffle pod slab 225 mm 100mm	44.07	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Mud	Waffle pod slab 225 mm 100mm	3.94	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Guest ens	Waffle pod slab 225 mm 100mm	6.75	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Guest	Waffle pod slab 225 mm 100mm	12.00	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Guest Living	Waffle pod slab 225 mm 100mm	17.94	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Kitchen/Living1	Waffle pod slab 225 mm 100mm	85.94	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Butlers	Waffle pod slab 225 mm 100mm	9.92	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Laundry	Waffle pod slab 225 mm 100mm	8.51	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Hall	Waffle pod slab 225 mm 100mm	4.53	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Bath 1	Waffle pod slab 225 mm 100mm	8.40	None	Waffle Pod 225mm	Ceramic Tiles 8mm
MPR	Waffle pod slab 225 mm 100mm	25.38	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Store	Waffle pod slab 225 mm 100mm	6.97	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Hall upper / Entry/wc	Concrete Timber Framed Above Plasterboard 100mm	26.31		No Insulation	Carpet+Rubber Underlay 18mm
Hall upper / Guest Living	Concrete Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Carpet+Rubber Underlay 18mm
Hall upper / Butlers	Concrete Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Carpet+Rubber Underlay 18mm
Hall upper / Hall	Concrete Timber Framed Above Plasterboard 100mm	0.00		No Insulation	Carpet+Rubber Underlay 18mm

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Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Bed 3 / Entry/wc	Concrete Timber Framed Above Plasterboard 100mm	1.35		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3 / Guest ens	Concrete Timber Framed Above Plasterboard 100mm	4.61		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3 / Guest	Concrete Timber Framed Above Plasterboard 100mm	5.64		No Insulation	Carpet+Rubber Underlay 18mm
Bed 3 / Guest Living	Concrete Timber Framed Above Plasterboard 100mm	5.54		No Insulation	Carpet+Rubber Underlay 18mm
Bath 3 / Guest Living	Concrete Timber Framed Above Plasterboard 100mm	6.03		No Insulation	Ceramic Tiles 8mm
Master ens / Kitchen/Living1	Concrete Timber Framed Above Plasterboard 100mm	11.13		No Insulation	Ceramic Tiles 8mm
Master / Kitchen/Living1	Concrete Timber Framed Above Plasterboard 100mm	28.34		No Insulation	Carpet+Rubber Underlay 18mm
Wir / Kitchen/Living1	Concrete Timber Framed Above Plasterboard 100mm	7.76		No Insulation	Carpet+Rubber Underlay 18mm
Rumpus/lounge / Kitchen/Living1	Concrete Timber Framed Above Plasterboard 100mm	22.21		No Insulation	Carpet+Rubber Underlay 18mm
Study / Entry/wc	Concrete Timber Framed Above Plasterboard 100mm	0.35		No Insulation	Carpet+Rubber Underlay 18mm
Study / Butlers	Concrete Timber Framed Above Plasterboard 100mm	2.34		No Insulation	Carpet+Rubber Underlay 18mm
Study / Laundry	Concrete Timber Framed Above Plasterboard 100mm	3.14		No Insulation	Carpet+Rubber Underlay 18mm
Bath 2 / Laundry	Concrete Timber Framed Above Plasterboard 100mm	5.09		No Insulation	Ceramic Tiles 8mm
Bath 2 / Hall	Concrete Timber Framed Above Plasterboard 100mm	2.94		No Insulation	Ceramic Tiles 8mm
Bed 1 / Entry/wc	Concrete Timber Framed Above Plasterboard 100mm	3.38		No Insulation	Carpet+Rubber Underlay 18mm
Bed 1 / Bath 1	Concrete Timber Framed Above Plasterboard 100mm	5.52		No Insulation	Carpet+Rubber Underlay 18mm
Bed 1 / MPR	Concrete Timber Framed Above Plasterboard 100mm	8.56		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2 / Entry/wc	Concrete Timber Framed Above Plasterboard 100mm	1.98		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2 / Mud	Concrete Timber Framed Above Plasterboard 100mm	1.83		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2 / MPR	Concrete Timber Framed Above Plasterboard 100mm	11.21		No Insulation	Carpet+Rubber Underlay 18mm
Bed 2 / Store	Concrete Timber Framed Above Plasterboard 100mm	2.16		No Insulation	Carpet+Rubber Underlay 18mm



Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Entry/wc	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
Entry/wc	Concrete Timber Framed Above Plasterboard	No Insulation	
Mud	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
Mud	Concrete Timber Framed Above Plasterboard	No Insulation	
Guest ens	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
Guest ens	Concrete Timber Framed Above Plasterboard	No Insulation	
Guest	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
Guest	Concrete Timber Framed Above Plasterboard	No Insulation	
Guest Living	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
Guest Living	Concrete Timber Framed Above Plasterboard	No Insulation	
Kitchen/Living1	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
Kitchen/Living1	Concrete Timber Framed Above Plasterboard	No Insulation	
Butlers	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
Butlers	Concrete Timber Framed Above Plasterboard	No Insulation	
Laundry	Concrete Timber Framed Above Plasterboard	No Insulation	
Hall	Concrete Timber Framed Above Plasterboard	No Insulation	
Bath 1	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
Bath 1	Concrete Timber Framed Above Plasterboard	No Insulation	
MPR	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
MPR	Concrete Timber Framed Above Plasterboard	No Insulation	
Store	Concrete, Plasterboard with Timber Frame	Bulk Insulation R5	
Store	Concrete Timber Framed Above Plasterboard	No Insulation	
Hall upper	Plasterboard on Timber	Bulk Insulation R5	
Bed 3	Plasterboard on Timber	Bulk Insulation R5	
Bath 3	Plasterboard on Timber	Bulk Insulation R5	
Master ens	Plasterboard on Timber	Bulk Insulation R5	
Master	Plasterboard on Timber	Bulk Insulation R5	
Wir	Plasterboard on Timber	Bulk Insulation R5	
Rumpus/lounge	Plasterboard on Timber	Bulk Insulation R5	
Study	Plasterboard on Timber	Bulk Insulation R5	

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7.1 Star Rating as of 29 Oct 2024

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Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Bath 2	Plasterboard on Timber	Bulk Insulation R5	
Bed 1	Plasterboard on Timber	Bulk Insulation R5	
Bed 2	Plasterboard on Timber	Bulk Insulation R5	

Ceiling penetrations*

Entry/wc Entry/wc	18	Downlights - LED	0	011
Entry/wc			U	Sealed
	1	Exhaust Fans	300	Sealed
Mud	1	Downlights - LED	0	Sealed
Guest ens	3	Downlights - LED	0	Sealed
Guest ens	1	Exhaust Fans	300	Sealed
Guest	5	Downlights - LED	0	Sealed
Guest Living	7	Downlights - LED	0	Sealed
Kitchen/Living1	35	Downlights - LED	0	Sealed
Kitchen/Living1	1	Exhaust Fans	160	Sealed
Butlers	4	Downlights - LED	0	Sealed
Laundry	4	Downlights - LED	0	Sealed
Hall	1	Downlights - LED	0	Sealed
Bath 1	4	Downlights - LED	0	Sealed
Bath 1	1	Exhaust Fans	300	Sealed
MPR	10	Downlights - LED	0	Sealed
Store	3	Downlights - LED	0	Sealed
Hall upper	18	Downlights - LED	0	Sealed
Bed 3	7	Downlights - LED	0	Sealed
Bath 3	3	Downlights - LED	0	Sealed
Bath 3	1	Exhaust Fans	300	Sealed
Master ens	5	Downlights - LED	0	Sealed
Master ens	1	Exhaust Fans	300	Sealed
Master	12	Downlights - LED	0	Sealed
Wir	3	Downlights - LED	0	Sealed
Rumpus/lounge	9	Downlights - LED	0	Sealed
Study	3	Downlights - LED	0	Sealed

0011515368-01 NatHERS Certificate 7.	.1 Star Rating as of 29 Oct 2024
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Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed	
Bath 2	4	Downlights - LED	0	Sealed	
Bath 2	1	Exhaust Fans	300	Sealed	
Bed 1	8	Downlights - LED	0	Sealed	
Bed 2	7	Downlights - LED	0	Sealed	

Ceiling fans

Quantity	Diameter [mm]
1	1400
1	1400
1	1400
1	1400
1	1400
1	1400
1	1400
1	1400
1	1400
	1 1 1 1 1 1 1 1 1 1 1 1 1

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Waterproofing Membrane	No Added Insulation, No air Gap	0.50	Medium
Roof Tiles Timber Frame	Foil, Gap Above, Reflective Side Down, Anti-glare Up	0.50	Medium

Thermal bridging schedule for steel frame elements

Building element	Steel section dimensions [height x width, mm]	Frame spacing [mm]	Steel thickness [BMT,mm]	Thermal break [R-value]
No Data Available				

Appliance schedule

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

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



Cooling system

Appliance/ system type	Location Fuel type		Minimum efficiency/ performance		Recommended capacity		
No Data Available							
Heating system							
Appliance/ system type	Location Fuel type		Minimum efficiency/ performance		Recommended capacity		
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		Minimum efficiency/ performance		Recommended capacity		
No Data Available				-			
Onsite Renewable	Energy Sch	edule					
System Type (Orientation		Syst	em Size O	r Generation	Capacity	
No Data Available							
Battery Schedule							
System Type	Size [Battery Storage Capacity]						
No Data Available							

HOUSE

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.			
СОР	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)	of 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)			