Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 0011798873-01

Generated on 03 Apr 2025 using BERS Pro v5.2.4 (3.23)

Property

Address Dindima Place,

BELROSE, NSW, 2085

Lot/DP Lot 9 DP 253519

NCC class* 1a

Floor/all Floors G of 2 floors

Type New Home

Plans

Main plan 29917576

Prepared by Clarendon Homes - MTK

Construction and environment

Assessed floor area [m2]*

272.5

Unconditioned* 16.7 Total 328.9

Garage 39.7

Exposure type

Suburban

NatHERS climate zone

56 Mascot (Sydney Airport)



Conditioned*

Accredited assessor

Name Daniel.Warda

Business name Energi Thermal Assessors Pty Ltd
Email daniel@energiassessments.com.au

Phone 0452504125
Accreditation No. 101182

Assessor Accrediting Organisation

ABSA

Declaration of interest Declaration completed: no conflicts

NCC Requirements

NCC provisions Volume Two

Strate/Territory variation Y

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

29.3 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	16.2	13.0
Load limits	N/A	N/A

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=ncBDzLrlf. 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

Νo

NA - Not Applicable

Outdoor Living Area Ceiling Fan:

Yes

No

NA - Not Applicable

Cost

No Whole of Home performance assessment conducted for this certificate



Predicted onsite renewable energy impact

No Whole of Home performance assessment conducted for this certificate.

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

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HOUSE

	Approva	I Stage	Stage	ction	
Certificate check Continued	Assessor checked	Consent Authority/ Surveyor checked	Builder checked	Consent Authority Surveyor checked	Occupancy/Other
Additional NCC requirements for thermal performance (not included)	ıded in 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		n	n		
Note: This Certificate only covers the energy efficiency requirements in the NCC. Addibut are not limited to: condensation, structural and fire safety requirements and any strequirements.					
Additional notes					
Rev C					



Room schedule

Room	Zone Type	Area [m²]
Rumpus	Daytime	15.27
Kitchen/Living	Kitchen/Living	61.48
B'Pantry	Daytime	5.14
LDRY	Unconditioned	5.82
Garage	Garage	39.71
Entry/Stairs	Daytime	18.14
IT	Daytime	6.6
PDR	Daytime	5.9
Living	Living	25.97
Bedroom 2	Bedroom	18.04
Bedroom 4	Bedroom	18.05
Ensuite	Nighttime	14.11
Bedroom 1	Bedroom	33.61
Bath	Unconditioned	7.71
WC	Unconditioned	3.15
Bedroom 3	Bedroom	13.55
Lesiure/Void	Living	48.89

Window and glazed door type and performance

Default windows*

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
willdow ib	Description	U-value*	знас	SHGC lower limit	SHGC upper limit
No Data Availa	able				

Custom windows*

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
willdow ib	Description	U-value*	знас	SHGC lower limit	SHGC upper limit
WID-102-021	Aluminium Sliding Window DG 4ETClr/12Ar/4Clr	3.3	0.51	0.49	0.54
WID-104-020	Aluminium Sliding Door DG 4ETClr/12Ar/4Clr	2.9	0.55	0.52	0.58
WID-106-020	Aluminium Fixed Window DG 4ETClr/12Ar/4Clr	2.3	0.59	0.56	0.62
WID-108-022	Aluminium Fixed Window DG 4ETClr/12Ar/4Clr	2.8	0.57	0.54	0.60



Custom windows*

Window ID	Window	Maximum	SHGC*	Substitution to	lerance ranges
willdow iD	Description	U-value*	SHGC	SHGC lower limit	SHGC upper limit
WID-108-001	Aluminium Fixed Window SG 4Clr	6.3	0.77	0.73	0.80
WID-102-001	Aluminium Sliding Window SG 4Clr	6.3	0.76	0.72	0.79
WID-101-019	Aluminium Awning Window SG 4ET	4.9	0.55	0.52	0.58
WID-102-005	Aluminium Sliding Window SG 4ETClr	4.5	0.63	0.60	0.66
WID-101-001	Aluminium Awning Window SG 4Clr	6.4	0.66	0.62	0.69

Window and glazed door schedule

Rumpus WID-102-021-001 W7 2000 2100 Sliding 30 N Rumpus WID-104-020-003 W9 2400 2700 Sliding 60 E Kitchen/Living WID-102-021-001 W6 2000 1800 Sliding 30 N Kitchen/Living WID-104-020-003 W8 2400 2700 Sliding 60 N Kitchen/Living WID-106-020-002 W12 300 1500 Fixed 00 W Kitchen/Living WID-106-020-002 W13 300 1500 Fixed 00 W B'Pantry WID-108-022-002 W5 715 1810 Fixed 00 W B'Pantry WID-108-022-002 W4 715 1210 Fixed 00 E LDRY WID-108-001-002 W4 715 1210 Fixed 00 E Garage WID-102-001-003 W3 600 1800 Sliding 45 W	Window shading device*	Orientation	Opening %	Window type	Width [mm]	Height [mm]	Window no.	Window ID	Location
Kitchen/Living WID-102-021-001 W6 2000 1800 Sliding 30 N Kitchen/Living WID-104-020-003 W8 2400 2700 Sliding 60 N Kitchen/Living WID-106-020-002 W12 300 1500 Fixed 00 W Kitchen/Living WID-106-020-002 W13 300 1500 Fixed 00 W B'Pantry WID-108-022-002 W5 715 1810 Fixed 00 E LDRY WID-108-022-002 W4 715 1210 Fixed 00 E Garage WID-108-001-002 W4 715 1210 Fixed 00 E IT WID-102-001-003 W3 600 1800 Sliding 45 W Living WID-101-019-003 W1 2000 2400 Awning 60 S Living WID-102-005-002 W11 600 2400 Sliding 45 N	No	N	30	Sliding	2100	2000	W7	WID-102-021-001	Rumpus
Kitchen/Living WID-104-020-003 W8 2400 2700 Sliding 60 N Kitchen/Living WID-106-020-002 W12 300 1500 Fixed 00 W Kitchen/Living WID-106-020-002 W13 300 1500 Fixed 00 W B'Pantry WID-108-022-002 W5 715 1810 Fixed 00 E LDRY WID-108-001-002 W4 715 1210 Fixed 00 E Garage WID-102-001-003 W3 600 1800 Sliding 45 E IT WID-102-021-001 W10 1300 1500 Sliding 45 W Living WID-101-019-003 W1 2000 2400 Awning 60 S Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 800 Sliding 45 N	No	E	60	Sliding	2700	2400	W9	WID-104-020-003	Rumpus
Kitchen/Living WID-106-020-002 W12 300 1500 Fixed 00 W Kitchen/Living WID-106-020-002 W13 300 1500 Fixed 00 W B'Pantry WID-108-022-002 W5 715 1810 Fixed 00 E LDRY WID-108-001-002 W4 715 1210 Fixed 00 E Garage WID-102-001-003 W3 600 1800 Sliding 45 E IT WID-102-021-001 W10 1300 1500 Sliding 45 W Living WID-101-019-003 W1 2000 2400 Awning 60 S Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 2100 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N </td <td>No</td> <td>N</td> <td>30</td> <td>Sliding</td> <td>1800</td> <td>2000</td> <td>W6</td> <td>WID-102-021-001</td> <td>Kitchen/Living</td>	No	N	30	Sliding	1800	2000	W6	WID-102-021-001	Kitchen/Living
Kitchen/Living WID-106-020-002 W13 300 1500 Fixed 00 W B'Pantry WID-108-022-002 W5 715 1810 Fixed 00 E LDRY WID-108-001-002 W4 715 1210 Fixed 00 E Garage WID-102-001-003 W3 600 1800 Sliding 45 E IT WID-102-021-001 W10 1300 1500 Sliding 45 W Living WID-101-019-003 W1 2000 2400 Awning 60 S Living WID-101-019-003 W2 2000 1500 Awning 45 S Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 2100 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N	No	N	60	Sliding	2700	2400	W8	WID-104-020-003	Kitchen/Living
B'Pantry WID-108-022-002 W5 715 1810 Fixed 00 E LDRY WID-108-001-002 W4 715 1210 Fixed 00 E Garage WID-102-001-003 W3 600 1800 Sliding 45 E IT WID-102-021-001 W10 1300 1500 Sliding 45 W Living WID-101-019-003 W1 2000 2400 Awning 60 S Living WID-101-019-003 W2 2000 1500 Awning 45 S Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 2100 Sliding 45 N Bedroom 4 WID-102-005-002 W19 1200 800 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 1500 Sliding 45 N	No	W	00	Fixed	1500	300	W12	WID-106-020-002	Kitchen/Living
LDRY WID-108-001-002 W4 715 1210 Fixed 00 E Garage WID-102-001-003 W3 600 1800 Sliding 45 E IT WID-102-021-001 W10 1300 1500 Sliding 45 W Living WID-101-019-003 W1 2000 2400 Awning 60 S Living WID-101-019-003 W2 2000 1500 Awning 45 S Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 2100 Sliding 45 N Bedroom 4 WID-102-005-002 W19 1200 800 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 1500 Sliding 45 N	No	W	00	Fixed	1500	300	W13	WID-106-020-002	Kitchen/Living
Garage WID-102-001-003 W3 600 1800 Sliding 45 E IT WID-102-021-001 W10 1300 1500 Sliding 45 W Living WID-101-019-003 W1 2000 2400 Awning 60 S Living WID-101-019-003 W2 2000 1500 Awning 45 S Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 2100 Sliding 45 N Bedroom 4 WID-102-005-002 W19 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 1500 Sliding 45 N	No	Е	00	Fixed	1810	715	W5	WID-108-022-002	B'Pantry
IT WID-102-021-001 W10 1300 1500 Sliding 45 W Living WID-101-019-003 W1 2000 2400 Awning 60 S Living WID-101-019-003 W2 2000 1500 Awning 45 S Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 Sliding 45 N Bedroom 4 WID-102-005-002 W19 1200 800 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 I500 Sliding 45 N	No	Е	00	Fixed	1210	715	W4	WID-108-001-002	LDRY
Living WID-101-019-003 W1 2000 2400 Awning 60 S Living WID-101-019-003 W2 2000 1500 Awning 45 S Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 2100 Sliding 45 N Bedroom 4 WID-102-005-002 W19 1200 800 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 1500 Sliding 45 N	No	Е	45	Sliding	1800	600	W3	WID-102-001-003	Garage
Living WID-101-019-003 W2 2000 1500 Awning 45 S Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 2100 Sliding 45 N Bedroom 4 WID-102-005-002 W19 1200 800 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 Sliding 45 N	No	W	45	Sliding	1500	1300	W10	WID-102-021-001	IT
Living WID-102-005-002 W11 600 2400 Sliding 45 W Bedroom 2 WID-102-005-002 W21 1200 2100 Sliding 45 N Bedroom 4 WID-102-005-002 W19 1200 800 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 1500 Sliding 45 N	No	S	60	Awning	2400	2000	W1	WID-101-019-003	Living
Bedroom 2 WID-102-005-002 W21 1200 2100 Sliding 45 N Bedroom 4 WID-102-005-002 W19 1200 800 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 1500 Sliding 45 N	No	S	45	Awning	1500	2000	W2	WID-101-019-003	Living
Bedroom 4 WID-102-005-002 W19 1200 800 Sliding 45 N Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 1500 Sliding 45 N	No	W	45	Sliding	2400	600	W11	WID-102-005-002	Living
Bedroom 4 WID-102-005-002 W20 1200 800 Sliding 45 N Ensuite WID-102-001-003 W22 1200 1500 Sliding 45 N	No	N	45	Sliding	2100	1200	W21	WID-102-005-002	Bedroom 2
Ensuite WID-102-001-003 W22 1200 1500 Sliding 45 N	No	N	45	Sliding	800	1200	W19	WID-102-005-002	Bedroom 4
	No	N	45	Sliding	800	1200	W20	WID-102-005-002	Bedroom 4
Bedroom 1 WID-102-005-002 W18 600 2400 Sliding 45 E	No	N	45	Sliding	1500	1200	W22	WID-102-001-003	Ensuite
	No	E	45	Sliding	2400	600	W18	WID-102-005-002	Bedroom 1
Bedroom 1 WID-101-019-003 W16 1200 1800 Awning 45 S	No	S	45	Awning	1800	1200	W16	WID-101-019-003	Bedroom 1
Bedroom 1 WID-101-019-003 W17 1200 1800 Awning 45 S	No	S	45	Awning	1800	1200	W17	WID-101-019-003	Bedroom 1

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Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
Bath	WID-102-001-003	W25	1200	1500	Sliding	45	W	No
WC	WID-101-001-002	W26	1200	600	Awning	90	W	No
Bedroom 3	WID-101-019-003	W14	1200	2600	Awning	60	S	No
Bedroom 3	WID-102-005-002	W23	600	1800	Sliding	45	W	No
Lesiure/Void	WID-101-019-003	W15	1200	2600	Awning	60	S	No

Roof window* type and performance value

Default roof windows*

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

No Data Available

Custom roof windows*

Window ID	Window	Vindow Maximum		Substitution tolerance ranges		
window iD	Description	U-value*	SHGC* -	SHGC lower limit	SHGC upper limit	
No Data Avail	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
No Data Available		

Skylight* schedule

Location ID No. shaft length [m²] Orientation Shade Diffuser	Location	Skylight ID	Skylight No.		Area Orientation [m²]	Outdoor shade	Diffuser	
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No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
B'Pantry	2340	820	90	N

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HOUSE

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2400	4810	90	S	
Entry/Stairs	2457	1266	90	S	

External wall type

Wall ID	Wall type	Solar absorptance	 Bulk insulation [R-value]	Reflective wall wrap*
EW-1	Steel Stud Frame Brick Veneer	0.50	Bulk Insulation, Air Gap R2.7	No
EW-2	Steel Stud Frame Brick Veneer	0.50	No insulation	No
EW-3	Single Skin Brick	0.50	No insulation	No
EW-4	Fibro Steel Stud Frame Panel Direct Fix	0.50	Bulk Insulation, Air Gap R2.7	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Rumpus	EW-1	2750	4400	N	600	No
Rumpus	EW-1	2750	3495	E	10100	No
Rumpus	EW-1	2750	3495	W	600	No
Kitchen/Living	EW-1	2750	7595	N	4100	No
Kitchen/Living	EW-1	2750	4990	W	200	No
B'Pantry	EW-1	2750	1895	N	4100	No
B'Pantry	EW-1	2750	2795	Е	100	No
LDRY	EW-1	2750	2990	Е	100	No
Garage	EW-2	2750	600	N	100	No
Garage	EW-2	2750	6600	Е	100	No
Garage	EW-3	2750	6100	S	100	No
Garage	EW-2	2750	1800	W	8600	No
Entry/Stairs	EW-1	2750	2300	S	1900	No
IT	EW-1	2750	3090	W	200	No
Living	EW-1	2750	1800	Е	8500	No
Living	EW-1	2750	6100	S	100	No
Living	EW-1	2750	4295	W	200	No
Bedroom 2	EW-4	2600	5995	N	600	No
Bedroom 2	EW-1	2600	3695	W	600	No



Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature [yes/no]
Bedroom 4	EW-4	2600	3990	N	600	No
Ensuite	EW-4	2600	3895	N	600	No
Ensuite	EW-1	2600	3695	E	600	No
Bedroom 1	EW-1	2600	6595	E	600	No
Bedroom 1	EW-4	2600	5495	S	600	No
Bath	EW-1	2600	2890	W	600	No
WC	EW-1	2600	1990	W	600	No
Bedroom 3	EW-4	2600	3995	S	500	No
Bedroom 3	EW-1	2600	3795	W	600	No
Lesiure/Void	EW-4	2600	2100	E	600	No
Lesiure/Void	EW-4	2600	4395	S	500	No

Internal wall type

Wall ID	Wall type	Area [m ²]	Bulk insulation
IW-001	Steel Stud Frame, Direct Fix Plasterboard	158.46	No insulation
IW-002	Steel Stud Frame, Direct Fix Plasterboard	74.60	Bulk Insulation, No Air Gap R2

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Rumpus	Waffle pod slab 225 mm 100mm	15.27	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Kitchen/Living	Waffle pod slab 225 mm 100mm	61.48	None	Waffle Pod 225mm	80/20 Carpet 10mm/Ceramic
B'Pantry	Waffle pod slab 225 mm 100mm	5.14	None	Waffle Pod 225mm	Ceramic Tiles 8mm
LDRY	Waffle pod slab 225 mm 100mm	5.82	None	Waffle Pod 225mm	Ceramic Tiles 8mm
Garage	Waffle pod slab 225 mm 100mm	39.71	None	Waffle Pod 225mm	Bare
Entry/Stairs	Waffle pod slab 225 mm 100mm	18.14	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
IT	Waffle pod slab 225 mm 100mm	6.60	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
PDR	Waffle pod slab 225 mm 100mm	5.90	None	Waffle Pod 225mm	Ceramic Tiles 8mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Living	Waffle pod slab 225 mm 100mm	25.97	None	Waffle Pod 225mm	Carpet+Rubber Underlay 18mm
Bedroom 2 / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	18.05		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 4 / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	18.05		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Ensuite / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	7.08		Bulk Insulation R2	Ceramic Tiles 8mm
Ensuite / B'Pantry	Steel Framed Timber Above Plasterboard 19mm	5.00		Bulk Insulation R2	Ceramic Tiles 8mm
Ensuite / LDRY	Steel Framed Timber Above Plasterboard 19mm	1.39		Bulk Insulation R2	Ceramic Tiles 8mm
Bedroom 1 / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	4.31		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 1 / LDRY	Steel Framed Timber Above Plasterboard 19mm	3.95		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bedroom 1 / Garage	Steel Framed Timber Above Plasterboard 19mm	24.16		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Bath / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	3.23		Bulk Insulation R2	Ceramic Tiles 8mm
Bath / IT	Steel Framed Timber Above Plasterboard 19mm	3.11		Bulk Insulation R2	Ceramic Tiles 8mm
Bath / PDR	Steel Framed Timber Above Plasterboard 19mm	0.55		Bulk Insulation R2	Ceramic Tiles 8mm
WC / IT	Steel Framed Timber Above Plasterboard 19mm	2.30		Bulk Insulation R2	Ceramic Tiles 8mm
WC / Living	Steel Framed Timber Above Plasterboard 19mm	0.60		Bulk Insulation R2	Ceramic Tiles 8mm
Bedroom 3 / Living	Steel Framed Timber Above Plasterboard 19mm	13.54		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Lesiure/Void / Kitchen/Living	Steel Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm



Location	Construction	Area [m²]	Sub-floor ventilation	Added insulation [R-value]	Covering
Lesiure/Void / Entry/Stairs	Steel Framed Timber Above Plasterboard 19mm	5.59		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Lesiure/Void / IT	Steel Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Lesiure/Void / PDR	Steel Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Lesiure/Void / Living	Steel Framed Timber Above Plasterboard 19mm	0.00		Bulk Insulation R2	Carpet+Rubber Underlay 18mm
Lesiure/Void	Suspended Floor Steel Frame 19mm	3.19	Totally Open	Bulk Insulation in Contact with Floor R2	Carpet+Rubber Underlay 18mm

Ceiling type

Location	Construction material/type	Bulk insulation R-value (may include edge batt values)	Reflective wrap* [yes/no]
Rumpus	Plasterboard on Steel	Bulk Insulation R7	
Kitchen/Living	Steel Framed Timber Above Plasterboard	Bulk Insulation R2	
B'Pantry	Steel Framed Timber Above Plasterboard	Bulk Insulation R2	
LDRY	Steel Framed Timber Above Plasterboard	Bulk Insulation R2	
Garage	Plasterboard on Steel	No insulation	
Garage	Steel Framed Timber Above Plasterboard	Bulk Insulation R2	
Entry/Stairs	Steel Framed Timber Above Plasterboard	Bulk Insulation R2	
IT	Steel Framed Timber Above Plasterboard	Bulk Insulation R2	
PDR	Steel Framed Timber Above Plasterboard	Bulk Insulation R2	
Living	Steel Framed Timber Above Plasterboard	Bulk Insulation R2	
Bedroom 2	Plasterboard on Steel	Bulk Insulation R7	
Bedroom 4	Plasterboard on Steel	Bulk Insulation R7	
Ensuite	Plasterboard on Steel	Bulk Insulation R7	
Bedroom 1	Plasterboard on Steel	Bulk Insulation R7	
Bath	Plasterboard on Steel	Bulk Insulation R7	
WC	Plasterboard on Steel	Bulk Insulation R7	
Bedroom 3	Plasterboard on Steel	Bulk Insulation R7	



 Location
 Construction material/type
 Bulk insulation R-value (may include edge batt values)
 Reflective wrap* [yes/no]

 Lesiure/Void
 Plasterboard on Steel
 Bulk Insulation R7

Ceiling penetrations*

Location	Quantity	Туре	Diameter [mm]	Sealed/unsealed
Rumpus	3	Downlights - LED	0	Sealed
Kitchen/Living	15	Downlights - LED	0	Sealed
Kitchen/Living	1	Exhaust Fans	300	Sealed
B'Pantry	1	Downlights - LED	0	Sealed
Entry/Stairs	1	Downlights - LED	0	Sealed
IT	1	Downlights - LED	0	Sealed
PDR	1	Exhaust Fans	300	Sealed
Living	6	Downlights - LED	0	Sealed
Lesiure/Void	3	Downlights - LED	0	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]	
No Data Available			

Roof type

Construction	Added insulation [R-value]	Solar absorptance	Roof shade [colour]
Corrugated Iron Timber Frame	Bulk, Reflective Side Down, No Air Gap Above R1.3	0.50	Medium

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]
External Wall		600	0.75	No
Ceiling		900	0.75	No
Internal Wall		600	0.75	No
External Wall		600	0.75	R0.3
Floor		450	1.5	No

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	ance/ system type Location Fuel t		uel type	Minimum Recomme efficiency/ capaci performance			
No Data Available							
Heating system							
Appliance/ system type	ce/ 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		Minimu efficiend performa	cy/	Recomm capac	

Onsite Renewable Energy Schedule

System Type	Orientation	System Size Or Generation Capacity
No Data Available		

Battery Schedule

No Data Available

System Type	Size [Battery Storage Capacity]
No Data Available	



Explanatory notes

About this report

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

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

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

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

Accredited assessors

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

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

are not quality assured.

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

Disclaimer

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

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

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

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

Glossary

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