Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. G4NZHF6502-01

Generated on 8 Apr 2025 using FirstRate5: 5.5.5a (3.22)

Property

Address 90 Harbord Road,

Freshwater, NSW, 2096

Lot/DP 13/-/DP11055 **NCC Class*** Class 1a

Floor/all Floors

Type New Home

Plans

Main plan 12/12/2024

Prepared by JC

Construction and environment

Assessed floor area [m²]*

Conditioned* 185.6

Unconditioned* 43.1

Total 228.7 Garage 34.5

0.1

34.5

Exposure type

suburban

NatHERS climate zone

56 Mascot AMO



Name Pranab chakma
Business name PAUL & DAVID

Email info@basixcertifier.com.au

Phone 0490511593
Accreditation No. 101225
Assessor Accrediting Organisation

ABSA

Declaration of interest No

NCC Requirements

NCC provisions Volume 2 State/Territory variation Yes

National Construction Code (NCC) requirements

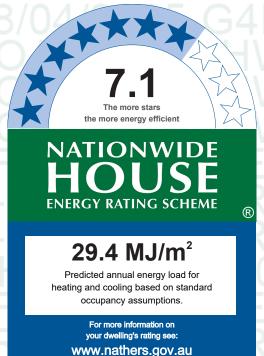
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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



Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	17.3	12.1
Load limits	N/A	N/A

Features determining load limits

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

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 https://w ww.fr5.com.au/QRCodeLand ing?PublicId=G4NZHF6502-01 When using either link, ensure you are visiting www.fr5.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.

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 NatHERS heating and cooling load limits Standard 2022 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.

Predicted Whole of Home annual impact by appliance

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

Energy use:

No Whole of Home performance assessment conducted for this certificate.

Greenhouse gas emissions:

No Whole of Home performance assessment conducted for this certificate.

Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

Certificate check	Approval	stage	Construc 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 who should check each item. It is not mandatory to complete this checklist.	Assesso	Consen	Builder	Consen	Occupa
Genuine certificate check					
Does this Certificate match the one available at the web address or QR code verification link on the front page?					
Does the NatHERS certificate number on the NatHERS-stamped plans match the number on this Certificate?					
Thermal performance check				•	
Windows and glazed doors					
Does the window size, opening type and location shown on the NatHERS-stamped plans or as installed match what is shown in 'Window and glazed door schedule' and 'Roof window schedule' tables on this Certificate?					
Does the installed windows meet the substitution tolerances (AFRC* based SHGC* and U-values*) as shown in the 'Window and glazed door type and performance' and 'Roof window type and performance' tables on this Certificate?					
External walls					
Does the external wall bulk insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the External wall type table on this Certificate?					
Does the external wall shade (colour) match what is shown in the 'External wall type' table on this Certificate?					
Floor	'		<u>'</u>	<u> </u>	
Does the floor insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Floor type' table on this certificate?					
Ceiling penetrations*					
Does the 'quantity' and 'type' of ceiling penetrations* (e.g. downlights, exhaust fans, etc) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling penetrations' table on this Certificate?					
Ceiling					
Does the ceiling insulation (R-value) shown on the NatHERS-stamped plans or as installed match what is shown in the 'Ceiling type' table on this Certificate?					
Roof			_		
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)	_				
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?					

	Approval	stage	Construct stage	tion	
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	in the Na	atHERS a	ssessme	nt)	,
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method		'	'	1	1
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 per	formance a	ssessmen	t is not con	ducted)	
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 Nath	ERS ass	essment)			
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	dditional re	auirements	s that must	also be sa	tisfied

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

- 1. Roof colour to be as per certificate
- 2. All insulation type may be replaced with similar R-value
- 3. All window type may be replaced with similar u-value and SHGC

Room schedule

Garage garage 34.5 Cellar unconditioned 2.4 WC dayTime 2.8 ENS nightTime 3.6 LDRY dayTime 2.9 Kids Play living 15.6 Kitchen/Living kitchen 71.6 Pantry dayTime 2.6 Study bedroom 14.7 WC unconditioned 6.3 Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9 Landing dayTime 13.2	Room	Zone Type	Area [m²]
WC dayTime 2.8 ENS nightTime 3.6 LDRY dayTime 2.9 Kids Play living 15.6 Kitchen/Living kitchen 71.6 Pantry dayTime 2.6 Study bedroom 14.7 WC unconditioned 6.3 Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	Garage	garage	34.5
ENS nightTime 3.6 LDRY dayTime 2.9 Kids Play living 15.6 Kitchen/Living kitchen 71.6 Pantry dayTime 2.6 Study bedroom 14.7 WC unconditioned 6.3 Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	Cellar	unconditioned	2.4
LDRY dayTime 2.9 Kids Play living 15.6 Kitchen/Living kitchen 71.6 Pantry dayTime 2.6 Study bedroom 14.7 WC unconditioned 6.3 Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	WC	dayTime	2.8
Kids Play living 15.6 Kitchen/Living kitchen 71.6 Pantry dayTime 2.6 Study bedroom 14.7 WC unconditioned 6.3 Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	ENS	nightTime	3.6
Kitchen/Living kitchen 71.6 Pantry dayTime 2.6 Study bedroom 14.7 WC unconditioned 6.3 Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	LDRY	dayTime	2.9
Pantry dayTime 2.6 Study bedroom 14.7 WC unconditioned 6.3 Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	Kids Play	living	15.6
Study bedroom 14.7 WC unconditioned 6.3 Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	Kitchen/Living	kitchen	71.6
WC unconditioned 6.3 Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	Pantry	dayTime	2.6
Bedroom 3 bedroom 15.2 Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	Study	bedroom	14.7
Bedroom 2 bedroom 13.7 Bedroom Master bedroom 21.3 ENS Master nightTime 8.3 WIR Master nightTime 6.9	WC	unconditioned	6.3
Bedroom Masterbedroom21.3ENS MasternightTime8.3WIR MasternightTime6.9	Bedroom 3	bedroom	15.2
ENS Master nightTime 8.3 WIR Master nightTime 6.9	Bedroom 2	bedroom	13.7
WIR Master nightTime 6.9	Bedroom Master	bedroom	21.3
<u>-</u>	ENS Master	nightTime	8.3
Landing dayTime 13.2	WIR Master	nightTime	6.9
	Landing	dayTime	13.2

Window and glazed door type and performance

Default* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
ALM-006-03 A	Aluminium B DG Argon Fill High Solar Gain low-E -Clear	4.1	0.52	0.49	0.55	
ALM-005-03 A	Aluminium A DG Argon Fill High Solar Gain low-E -Clear	4.1	0.47	0.45	0.49	
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57	0.54	0.6	

Custom* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
ALS-054-51 A	Carinya Bifold Door Bottom Roll DG 010_AGG PLUS Clr 4_12_4	3.13	0.43	0.41	0.45	
ALS-031-36 A	92mm Carinya Classic Fixed Window DG 008_AGG PLUS Clr 4_10_4	2.61	0.55	0.52	0.58	
ALS-034-12 A	50mm Carinya Classic Sliding Window SG 638CPClr	4.42	0.6	0.57	0.63	
ALS-027-12 A	50mm Carinya Classic Fixed Window SG 638CPClr	3.85	0.63	0.6	0.66	



Window and glazed door schedule

								Window
Location	Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	shading device*
Kids Play	ALS-054-51 A	D5	2100	2700	other	90.0	E	No
Kitchen/Living	ALS-031-36 A	13	3000	3000	fixed	0.0	E	No
Kitchen/Living	ALS-054-51 A	D6	3000	4600	other	90.0	N	No
Kitchen/Living	ALM-006-03 A	11	2530	2000	fixed	0.0	N	No
Kitchen/Living	ALM-005-03 A	16	3000	1200	casement	70.0	S	No
Kitchen/Living	ALM-005-03 A	15	3000	1200	casement	70.0	S	No
Study	ALS-034-12 A	19	1540	1570	sliding	45.0	E	No
Study	ALS-034-12 A	27	1540	1980	sliding	45.0	N	No
WC	ALM-001-01 A	18	1800	1000	awning	90.0	W	No
Bedroom 3	ALS-054-51 A	D7	2700	3200	other	90.0	S	No
Bedroom 2	ALS-034-12 A	17	1800	1570	sliding	45.0	S	No
Bedroom Master	ALM-006-03 A	25	1800	1570	sliding	45.0	S	No
Bedroom Master	ALM-006-03 A	23	2775	1202	fixed	0.0	E	No
Bedroom Master	ALM-006-03 A	24	2775	1202	fixed	0.0	E	No
Bedroom Master	ALS-054-51 A	D8	2700	3300	other	90.0	N	No
WIR Master	ALS-027-12 A	26	1800	970	fixed	0.0	S	No
Landing	ALS-027-12 A	20	1800	1090	fixed	0.0	N	No
Landing	ALS-027-12 A	21	1800	1090	fixed	0.0	N	No
Landing	ALS-027-12 A	22	1800	1090	fixed	0.0	N	No

Roof window* type and performance value

Default* roof windows

				Substitution to	lerance ranges
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
No Data Available					

Custom* roof windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
Velux:VEL-010-01 W	VELUX VS - Ventilating Skylight DG 3mm LoE 366 / 8.5mm Argon Gap / 5.36mm Clear La	2.53	0.21	0.2	0.22	

Roof window* schedule

			Opening	g Area	Width		Outdoor	Indoor
Location	Window ID	Window no.	%	[m²]	[mm]	Orientation	shade	shade

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ENS Master	Velux:VEL-010-01 W	S1	0.0	1.8	0	N	None	None
Landing	Velux:VEL-010-01 W	S2	0.0	1.1	0	N	None	None

Skylight* type and performance

Skylight ID Skylight description Skylight shaft reflectance

No Data Available

Skylight* schedule

Skylight shaft Area Orient- Outdoor

Location Skylight ID Skylight No. length [mm] [m²] ation shade Diffuser

No Data

Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage	2400	5400	100.0	S	
ENS	2100	820	100.0	W	
Kitchen/Living	3000	1300	100.0	S	

External wall type

Wall ID	Wall type	Solar absorptance	Train oridae	Bulk insulation [R-value]	Reflective wall wrap*
1	EX-01 - RENDER	0.5	Medium	Rockwool batt (k = 0.033) (R2.7)	Yes

External wall schedule

		Height	Width		Horizontal shading feature* maximum	Vertical shading
Location	Wall ID	[mm]	[mm]	Orientation	projection [mm]	feature* (yes/no)
Garage	1	2460	6008	W	0	Yes
Garage	1	2460	5701	S	0	No
Garage	1	2460	2866	E	0	Yes
Garage	1	2460	614	N	0	Yes
Cellar	1	2460	1342	W	0	Yes
ENS	1	2460	2051	W	0	Yes
Kids Play	1	2460	2997	W	0	Yes
Kids Play	1	2460	3037	E	0	Yes
Kids Play	1	2460	5161	N	0	Yes
Kitchen/Living	1	3000	4865	E	1037	Yes
Kitchen/Living	1	3000	4576	N	1822	Yes
Kitchen/Living	1	3000	1766	E	5622	Yes

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Kitchen/Living	1	3000	4334	N	0	Yes
Kitchen/Living	1	3000	702	W	2764	Yes
Kitchen/Living	1	3000	3295	N	770	Yes
Kitchen/Living	1	2460	899	E	2734	Yes
Kitchen/Living	1	3000	1701	S	0	Yes
Kitchen/Living	1	3000	8952	S	1726	Yes
Pantry	1	2460	1232	S	0	Yes
Study	1	2800	2997	W	0	No
Study	1	2800	3249	E	99	Yes
Study	1	2800	4336	N	0	No
WC	1	2800	2222	W	0	No
Bedroom 3	1	2800	3581	W	0	No
Bedroom 3	1	2800	4205	S	0	No
Bedroom 2	1	2800	3789	S	0	Yes
Bedroom Master	1	2800	3409	S	1743	No
Bedroom Master	1	2800	295	S	0	No
Bedroom Master	1	2800	383	SE	0	No
Bedroom Master	1	2800	3788	E	1115	No
Bedroom Master	1	2800	397	E	1726	No
Bedroom Master	1	2800	363	NE	2127	No
Bedroom Master	1	2800	5803	N	1827	Yes
ENS Master	1	2800	2159	S	0	Yes
WIR Master	1	2800	2108	S	724	No
Landing	1	2800	5750	N	703	Yes
Landing	1	2800	1012	Е	7402	Yes

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	173.7	Glass fibre batt: R2.5 (R2.5)

Floor type

			Sub-floor	Added insulat	ion
Location	Construction	Area [m²]	ventilation	[R-value]	Covering
Garage	FR5 - CSOG: Slab on Ground	13.8	Enclosed	R3.0	none
Garage	FR5 - CSOG: Slab on Ground	20.7	Enclosed	R3.0	none
Cellar	FR5 - CSOG: Slab on Ground	1.3	Enclosed	R3.0	none
Cellar	FR5 - CSOG: Slab on Ground	1	Enclosed	R3.0	none



WC	FR5 - CSOG: Slab on Ground	2.8	Enclosed	R3.0	Tiles
ENS	FR5 - CSOG: Slab on Ground	2	Enclosed	R3.0	Tiles
ENS	FR5 - CSOG: Slab on Ground	1.6	Enclosed	R3.0	Tiles
LDRY	FR5 - CSOG: Slab on Ground	2.9	Enclosed	R3.0	Tiles
Kids Play	FR5 - CSOG: Slab on Ground	9.6	Enclosed	R3.0	Tiles
Kids Play	FR5 - CSOG: Slab on Ground	5.9	Enclosed	R3.0	Tiles
Kitchen/Living	FR5 - CSOG: Slab on Ground	7.4	Enclosed	R3.0	Tiles
Kitchen/Living	FR5 - CSOG: Slab on Ground	58.9	Enclosed	R3.0	Tiles
Kitchen/Living	FR5 - CSOG: Slab on Ground	5.3	Enclosed	R3.0	Tiles
Pantry	FR5 - CSOG: Slab on Ground	2.6	Enclosed	R3.0	Tiles
Study	FL1 - Timber Lined Ply	14.7	Enclosed	R2.5	Carpet
WC	FL1 - Timber Lined Ply	6.3	Enclosed	R2.5	Tiles
Bedroom 3	FL1 - Timber Lined Ply	15.2	Enclosed	R2.5	Carpet
Bedroom 2	FL1 - Timber Lined Ply	13.6	Enclosed	R2.5	Carpet
Bedroom Master	FL1 - Timber Lined Ply	21.2	Enclosed	R2.5	Carpet
ENS Master	FL1 - Timber Lined Ply	8.3	Enclosed	R2.5	Tiles
WIR Master	FL1 - Timber Lined Ply	6.9	Enclosed	R2.5	Carpet
Landing	FL1 - Timber Lined Ply	13.2	Enclosed	R2.5	Carpet

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Garage	FL1 - Timber Lined Ply	R2.5	No
Garage	FL1 - Timber Lined Ply	R2.5	No
Garage	Plasterboard	R6.0	No
Cellar	FL1 - Timber Lined Ply	R2.5	No
Cellar	FL1 - Timber Lined Ply	R2.5	No
Cellar	Plasterboard	R6.0	No
WC	FL1 - Timber Lined Ply	R2.5	No
ENS	FL1 - Timber Lined Ply	R2.5	No
ENS	FL1 - Timber Lined Ply	R2.5	No
ENS	Plasterboard	R6.0	No
LDRY	FL1 - Timber Lined Ply	R2.5	No

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Kids Play	FL1 - Timber Lined Ply	R2.5	No
Kids Play	FL1 - Timber Lined Ply	R2.5	No
Kids Play	Plasterboard	R6.0	No
Kitchen/Living	FL1 - Timber Lined Ply	R2.5	No
Kitchen/Living	FL1 - Timber Lined Ply	R2.5	No
Kitchen/Living	Plasterboard	R0.0	No
Kitchen/Living	FL1 - Timber Lined Ply	R2.5	No
Kitchen/Living	Plasterboard	R6.0	No
Pantry	FL1 - Timber Lined Ply	R2.5	No
Study	Plasterboard	R6.0	No
WC	Plasterboard	R6.0	No
Bedroom 3	Plasterboard	R6.0	No
Bedroom 2	Plasterboard	R6.0	No
Bedroom Master	Plasterboard	R6.0	No
ENS Master	Plasterboard	R6.0	No
WIR Master	Plasterboard	R6.0	No
Landing	Plasterboard	R6.0	No

Ceiling penetrations*

		Height	Width	
Quantity	Туре	[mm]	[mm]	Sealed/unsealed
1	Exhaust Fans	250	250	Sealed
1	Exhaust Fans	250	250	Sealed
1	Exhaust Fans	250	250	Sealed
6	Downlights	50	50	Sealed
1	Exhaust Fans	250	250	Sealed
14	Downlights	50	50	Sealed
2	Downlights	50	50	Sealed
1	Exhaust Fans	250	250	Sealed
2	Downlights	50	50	Sealed
2	Downlights	50	50	Sealed
2	Downlights	50	50	Sealed
1	Exhaust Fans	250	250	Sealed
4	Downlights	50	50	Sealed
	1 1 1 1 6 1 14 2 1 2 2 2 2 1	1 Exhaust Fans 1 Exhaust Fans 1 Exhaust Fans 6 Downlights 1 Exhaust Fans 14 Downlights 2 Downlights 1 Exhaust Fans 2 Downlights 2 Downlights 2 Downlights 2 Downlights 1 Exhaust Fans 2 Downlights 1 Exhaust Fans 2 Exhaust Fans 2 Downlights 3 Downlights 4 Exhaust Fans	Quantity Type [mm] 1 Exhaust Fans 250 1 Exhaust Fans 250 1 Exhaust Fans 250 6 Downlights 50 1 Exhaust Fans 250 14 Downlights 50 2 Downlights 50 1 Exhaust Fans 250 2 Downlights 50 2 Exhaust Fans 250	Quantity Type [mm] [mm] 1 Exhaust Fans 250 250 1 Exhaust Fans 250 250 1 Exhaust Fans 250 250 6 Downlights 50 50 1 Exhaust Fans 250 250 2 Downlights 50 50 1 Exhaust Fans 250 250

Ceiling fans

Location	Quantity	Diameter [mm]
Kids Play	1	1400
Kitchen/Living	2	1800
Study	1	1400

Certificate

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Bedroom 3	1	1400
Bedroom 2	1	1400
Bedroom Master	1	1400

Roof type

	Added insulation		
Construction	[R-value]	Solar absorptance	Roof shade [colour]
Framed:Flat - Flat Framed (Metal Deck)	0.0	0.5	Medium

Thermal bridging schedule for steel frame elements

Steel section dimensions

[height x width, mm]

Frame spacing [mm]

Steel thickness

[BMT,mm]

Thermal break [R-value]

Building element
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

			winimum emciency/	Recommenaea	
Appliance/ system type	Location	Fuel type	performance	capacity	
No Whole of Home performance assessment conducted for this certificate.					

Heating system

			Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	performance	capacity
No Whole of Home performance assessment conducted for this certificate.				

Hot water system

		Minimum			
		efficiency/	Hot Water CER		Assessed daily
Appliance/ system type	Fuel type	performance	Zone	Zone 3 STC	load
			_		

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

		Minimum efficiency/	Recommenaea	
Appliance/ system type	Fuel type	performance	capacity	
No Whole of Home performance assessment of	onducted for this certificate.			

Onsite renewable energy schedule

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

System type	Orientation	System size or generation capacity
No Whole of Home performance assessment conducted for this certificate.		

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Battery schedule

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

System type	Size [battery storage capacity]

No Whole of Home performance assessment conducted for this certificate. \\

NATION WIDE 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

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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.
СОР	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 ventilate corridor in a Class 2 building.
Exposure category – expose	d 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 –	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
suburban	
Exposure category –	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
protected	
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 air gap 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.

7.1 Star Rating as of 8 Apr 2025

NATIONWIDE HOUSE

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)