Nationwide House Energy Rating Scheme® NatHERS® Certificate No. 77C7214E46

Generated on 13 Jun 2025 using FirstRate5: 5.5.5a (3.22)

Property

Address 1, 35 Dennis Street,

Lakemba, NSW, 2195

Lot/DP A/-/DP321050

NCC Class* Class 1a

Floor/all Floors

Type **New Home**

Plans

Main plan 22/05/2025 Prepared by Eco.Factor

Construction and environment

Assessed floor area [m2]*

205.6

20

Unconditioned* 29.6 Total

235.2

Exposure type

suburban

NatHERS climate zone

56 Mascot AMO



Garage

Conditioned*

Accredited assessor

STEPHEN BURGUM Name

V-Star Energy in association with Ecoplus

Business name Consultants

Email stephen@vstarenergy.com.au

Phone 0421810026 Accreditation No. HERA10245

Assessor Accrediting Organisation

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



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	13.6	16
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=77C7214E46 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

Νo

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

	stage	ge Construction 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	in the Na	tHERS a	ssessme	nt)	J
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 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	IERS asse	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	quirement	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

All lighting devices must NOT penetrate ceiling insulation

In accordance with NCC clause D2.24 and where applicable, openable windows 2m or more above the surface beneath have been modelled with a 10% opening safety restriction.

Window ID selections may be replaced with those with the same or lower U-Value and SHGC value +/-5%.

Any type of insulation can be replaced with one that have the same R-value.

Colour selections as shown on the plans.

Refer to the V-Star Energy Rating Summary Report for further information.

Room schedule

Room	Zone Type	Area [m²]
Garage	garage	20
Office	dayTime	11.4
Powder	dayTime	4.1
Fomal	living	28.4
Pantry	dayTime	4.3
Kitch/Din/Living	kitchen	40.3
Rear Bedroom 2	bedroom	10.9
Rear Bedroom 1	bedroom	10.8
Rear Halwlay	dayTime	1.9
Rear Kitchen	dayTime	21.8
Rear Bath	unconditioned	4.8
Bedroom 3	bedroom	10.4
Bedroom 2	bedroom	10.9
Study	bedroom	8.4
Sitting	living	23.9
WIR	nightTime	3.6
Bedroom 1	bedroom	20.2
Bath	unconditioned	4.8
Ensuite	nightTime	4.4

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
No Data Availa	able				

Custom* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
RYL-342-401 A	AA Series Sliding Window in-line reveal DG 4-12Ar-4	3.73	0.59	0.56	0.62	
RYL-372-701 A	AA Series Hinged Door DG 4-12Ar-4	3.84	0.47	0.45	0.49	
RYL-302-001 A	AA Series Fixed Lite Window DG 4-12Ar-4	2.98	0.64	0.61	0.67	
AWS-017-02 A	548 BF Al BiFold Door DG 4Az/10/4ET	3.83	0.29	0.28	0.3	
RYL-312-101 A	AA Series Awning Window DG 4-12Ar-4	3.69	0.51	0.48	0.54	



RYL-362-640 A

AA Series Sliding Door DG LightBridge_ClrS0_4-12-4

2.97

0.49

0.47

0.51

Window and glazed door schedule

			Height	Width				Window
Location	Window ID	Window no.	meigni [mm]	[mm]	Window type	Opening %	Orientation	shading device*
Office	RYL-342-401 A	W6	1200	1810	sliding	45.0	SE	No
Fomal	RYL-342-401 A	W1	1800	1810	sliding	30.0	NE	No
Fomal	RYL-372-701 A	D1	2400	820	casement	90.0	NE	No
Fomal	RYL-302-001 A	W2	2100	1210	fixed	0.0	NW	No
Pantry	RYL-342-401 A	W5	600	1210	sliding	45.0	SE	No
Kitch/Din/Livin- g	RYL-342-401 A	W4	600	1810	sliding	45.0	SE	No
Kitch/Din/Livin- g	RYL-342-401 A	W3	1200	1810	sliding	45.0	NW	No
Kitch/Din/Livin- g	AWS-017-02 A	D6	2400	2710	other	90.0	SW	No
Rear Bedroom 2	RYL-342-401 A	W4G	1200	1510	sliding	45.0	SE	No
Rear Bedroom 1	RYL-342-401 A	W6G	1200	1510	sliding	45.0	SE	No
Rear Kitchen	RYL-312-101 A	W1G	1800	850	awning	45.0	NE	No
Rear Kitchen	RYL-342-401 A	W3G	1200	1510	sliding	45.0	NW	No
Rear Kitchen	RYL-342-401 A	W2G	600	1210	sliding	45.0	NW	No
Rear Kitchen	RYL-362-640 A	D5G	2400	2410	sliding	45.0	SW	No
Rear Bath	RYL-342-401 A	W5G	800	850	sliding	45.0	SE	No
Bedroom 3	RYL-342-401 A	W9	900	1810	sliding	10.0	SW	No
Bedroom 2	RYL-342-401 A	W10	900	1810	sliding	10.0	SW	No
Study	RYL-342-401 A	W11	600	1810	sliding	45.0	SE	No
Sitting	RYL-342-401 A	W8	900	1810	sliding	45.0	NW	No
Bedroom 1	RYL-342-401 A	W14	600	1810	sliding	45.0	SE	No
Bedroom 1	RYL-302-001 A	W7	1000	1000	fixed	0.0	NE	No
Bedroom 1	RYL-362-640 A	D7	2400	1810	sliding	45.0	NE	No
Bath	RYL-342-401 A	W12	800	850	sliding	45.0	SE	No
Ensuite	RYL-342-401 A	W13	800	850	sliding	45.0	SE	No

Roof window* type and performance value

Default* roof windows

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

Custom* roof windows

Substitution tolerance ranges

7 Star Rating as of 13 Jun 2025



Window ID Window description U-value* SHGC lower limit SHGC upper limit SHGC upper limit

No Data Available

Roof window* schedule

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

No Data Available

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	2300	2500	100.0	NE
Rear Kitchen	2340	1000	100.0	NE

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	BV - Brick Veneer - R0.0	0.9	Dark		No
2	DB - Brick Cavity	0.5	Medium		No
3	BV - Brick Veneer - R0.0	0.3	Light		No
4	BV - Brick Veneer - R2.5F	0.9	Dark	Glass fibre batt: R2.5 (R2.5)	No
5	BV - Brick Veneer - R2.5F	0.3	Light	Glass fibre batt: R2.5 (R2.5)	No
6	BV - Brick Veneer - R2.5F	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No
7	FC - Fibro Clad Framed - R2.5F	0.3	Light	Glass fibre batt: R2.5 (R2.5)	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Garage	1	2825	1080	SW	0	Yes
Garage	2	2825	6106	SE	0	No

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NATIONWIDE HOUSE MINEY BORNE SOMM

Garage	3	2825	3281	NE	0	Yes
Office	4	2740	3009	SE	0	Yes
Fomal	4	2740	838	SW	0	Yes
Fomal	5	2740	1004	SE	0	Yes
Fomal	5	2740	3798	NE	1183	No
Fomal	4	2740	9805	NW	0	Yes
Pantry	4	2740	1498	SE	0	Yes
Kitch/Din/Living	4	2740	2461	SE	448	Yes
Kitch/Din/Living	4	2740	4432	SE	0	Yes
Kitch/Din/Living	4	2740	2759	NW	0	Yes
Kitch/Din/Living	4	2740	6120	NW	669	Yes
Kitch/Din/Living	4	2740	5244	SW	2433	Yes
Rear Bedroom 2	6	2740	3007	SE	0	Yes
Rear Bedroom 2	6	2740	3613	SW	0	No
Rear Bedroom 1	6	2740	2991	SE	0	Yes
Rear Bedroom 1	6	2740	3609	NE	0	Yes
Rear Bedroom 1	6	2740	1291	NW	0	Yes
Rear Kitchen	6	2740	3207	NE	0	Yes
Rear Kitchen	6	2740	6805	NW	0	No
Rear Kitchen	6	2740	3207	SW	0	No
Rear Bath	6	2740	1922	SE	0	Yes
Bedroom 3	7	2740	3010	SW	449	No
Bedroom 3	7	2740	602	NW	0	Yes
Bedroom 3	7	2740	853	NE	460	Yes
Bedroom 3	7	2740	3238	NW	436	No
Bedroom 2	7	2740	3005	SW	451	No
Bedroom 2	7	2740	3835	SE	425	Yes
Study	7	2740	3005	SE	425	Yes
Sitting	7	2740	1014	NE	2251	Yes
Sitting	7	2740	8793	NW	435	No
Sitting	7	2740	855	SW	448	Yes
Sitting	7	2740	2424	NW	442	Yes
Bedroom 1	7	2740	3588	SE	412	Yes
Bedroom 1	7	2740	2055	NE	0	No
Bedroom 1	7	2740	2955	NE	2246	Yes
Bath	7	2740	2260	SE	427	Yes
	7	2740	2101	SE	418	Yes

Internal wall type



Wall ID	Wall type	Area [m²]	Bulk insulation
1	Internal Wall - Internal Stud Wall - R2.5F	59.3	Glass fibre batt: R2.5 (R2.5)
2	FR5 - Internal Plasterboard Stud Wall	161.5	

Floor type

Location	Construction	Area [m²]	Sub-floor ventilation	Added insula [R-value]	tion Covering
Garage	COSG - CSOG: Slab on Ground	5.8	Enclosed	R1.0	none
Garage	COSG - CSOG: Slab on Ground	14.3	Enclosed	R1.0	none
Office	COSG - CSOG: Slab on Ground	11.4	Enclosed	R1.0	Timber
Powder	COSG - CSOG: Slab on Ground	4.1	Enclosed	R1.0	Tiles
Fomal	COSG - CSOG: Slab on Ground	25.1	Enclosed	R1.0	Timber
Fomal	COSG - CSOG: Slab on Ground	3.4	Enclosed	R1.0	Timber
Pantry	COSG - CSOG: Slab on Ground	4.3	Enclosed	R1.0	Timber
Kitch/Din/Living	COSG - CSOG: Slab on Ground	27.1	Enclosed	R1.0	Timber
Kitch/Din/Living	COSG - CSOG: Slab on Ground	1.1	Enclosed	R1.0	Timber
Kitch/Din/Living	COSG - CSOG: Slab on Ground	10.9	Enclosed	R1.0	Timber
Kitch/Din/Living	COSG - CSOG: Slab on Ground	1.1	Enclosed	R1.0	Timber
Rear Bedroom 2	COSG - CSOG: Slab on Ground	8	Enclosed	R1.0	Carpet
Rear Bedroom 2	COSG - CSOG: Slab on Ground	2.8	Enclosed	R1.0	Carpet
Rear Bedroom 1	COSG - CSOG: Slab on Ground	8.1	Enclosed	R1.0	Carpet
Rear Bedroom 1	COSG - CSOG: Slab on Ground	2.7	Enclosed	R1.0	Carpet
Rear Halwlay	COSG - CSOG: Slab on Ground	1.9	Enclosed	R1.0	Timber
Rear Kitchen	COSG - CSOG: Slab on Ground	17.4	Enclosed	R1.0	Timber
Rear Kitchen	COSG - CSOG: Slab on Ground	4.4	Enclosed	R1.0	Timber
Rear Bath	COSG - CSOG: Slab on Ground	4	Enclosed	R1.0	Tiles



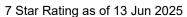
Rear Bath	COSG - CSOG: Slab on Ground	0.9	Enclosed	R1.0	Tiles
Bedroom 3	InFloor - Alpha concrete Intermediate Floor	6.7	Enclosed	R2.5	Timber
Bedroom 3	InFloor - Alpha concrete Intermediate Floor	1.1	Enclosed	R2.5	Timber
Bedroom 3	InFloor - Alpha concrete Intermediate Floor	0.6	Enclosed	R2.5	Timber
Bedroom 3	InFloor - Alpha concrete Intermediate Floor	0.3	Elevated	R2.5	Timber
Bedroom 3	InFloor - Alpha concrete Intermediate Floor	1.6	Elevated	R2.5	Timber
Bedroom 2	InFloor - Alpha concrete Intermediate Floor	8	Enclosed	R2.5	Timber
Bedroom 2	InFloor - Alpha concrete Intermediate Floor	2.9	Enclosed	R2.5	Timber
Study	InFloor - Alpha concrete Intermediate Floor	7.1	Enclosed	R2.5	Timber
Study	InFloor - Alpha concrete Intermediate Floor	1.3	Enclosed	R2.5	Timber
Sitting	InFloor - Alpha concrete Intermediate Floor	18.3	Enclosed	R2.5	Timber
Sitting	InFloor - Alpha concrete Intermediate Floor	5.5	Enclosed	R2.5	Timber
WIR	InFloor - Alpha concrete Intermediate Floor	3.6	Enclosed	R2.5	Timber
Bedroom 1	InFloor - Alpha concrete Intermediate Floor	1.6	Enclosed	R2.5	Timber
Bedroom 1	InFloor - Alpha concrete Intermediate Floor	18.6	Enclosed	R2.5	Timber
Bath	InFloor - Alpha concrete Intermediate Floor	3.8	Enclosed	R2.5	Tiles
Bath	InFloor - Alpha concrete Intermediate Floor	1	Enclosed	R2.5	Tiles
Ensuite	InFloor - Alpha concrete Intermediate Floor	3.5	Enclosed	R2.5	Tiles
Ensuite	InFloor - Alpha concrete Intermediate Floor	0.9	Enclosed	R2.5	Tiles

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Garage	Plasterboard	R0.0	No
Garage	InFloor - Alpha concrete Intermediate Floor	R2.5	No



Office	InFloor - Alpha concrete Intermediate Floor	R2.5	No
Powder	InFloor - Alpha concrete Intermediate Floor	R2.5	No
Fomal	InFloor - Alpha concrete Intermediate Floor	R2.5	No
Fomal	Plasterboard	R6.0	No
Pantry	InFloor - Alpha concrete Intermediate Floor	R2.5	No
Kitch/Din/Living	InFloor - Alpha concrete Intermediate Floor	R2.5	No
Kitch/Din/Living	Plasterboard	R2.5	Yes
Kitch/Din/Living	Plasterboard	R6.0	Yes
Kitch/Din/Living	Plasterboard	R2.5	Yes
Rear Bedroom 2	Plasterboard	R6.0	Yes
Rear Bedroom 2	Plasterboard	R2.5	Yes
Rear Bedroom 1	Plasterboard	R6.0	Yes
Rear Bedroom 1	Plasterboard	R2.5	Yes
Rear Halwlay	Plasterboard	R6.0	Yes
Rear Kitchen	Plasterboard	R6.0	Yes
Rear Kitchen	Plasterboard	R2.5	Yes
Rear Bath	Plasterboard	R6.0	Yes
Rear Bath	Plasterboard	R2.5	Yes
Bedroom 3	Plasterboard	R6.0	Yes
Bedroom 3	Plasterboard	R2.5	Yes
Bedroom 3	Plasterboard	R2.5	Yes
Bedroom 3	Plasterboard	R2.5	Yes
Bedroom 2	Plasterboard	R6.0	Yes
Bedroom 2	Plasterboard	R2.5	Yes
Study	Plasterboard	R6.0	Yes
Study	Plasterboard	R2.5	Yes
Sitting	Plasterboard	R6.0	Yes
Sitting	Plasterboard	R2.5	Yes
WIR	Plasterboard	R6.0	Yes
Bedroom 1	Plasterboard	R2.5	Yes
Bedroom 1	Plasterboard	R6.0	Yes
Bath	Plasterboard	R6.0	Yes



NATIONWIDE HOUSE	

Bath	Plasterboard	R2.5	Yes
Ensuite	Plasterboard	R6.0	Yes
Ensuite	Plasterboard	R2.5	Yes

Ceiling penetrations*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
Powder	1	Exhaust Fans	250	250	Sealed
Kitch/Din/Living	1	Exhaust Fans	250	250	Sealed
Rear Kitchen	1	Exhaust Fans	250	250	Sealed
Rear Bath	1	Exhaust Fans	250	250	Sealed
Bath	1	Exhaust Fans	250	250	Sealed
Ensuite	1	Exhaust Fans	250	250	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

Roof type

	Added insulatio	n	
Construction	[R-value]	Solar absorptance	Roof shade [colour]
Framed:Flat - Flat Framed (Metal Deck)	0.0	0.5	Medium
Cont:Attic-Continuous	0.0	0.5	Medium

Thermal bridging schedule for steel frame elements

	Steel section dimensions		Steel thickness	Thermal break
Building element	[height x width, mm]	Frame spacing [mm]	[BMT,mm]	[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 Whole of Home perform	ance assessment co	nducted for this certific	ate.	

Heating system

			Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	performance	capacity
No Whole of Home perform	ance assessment co	nducted for this certific	ate.	

Hot water system

Minimum

efficiency/ Hot Water CER

Zone

Assessed daily Zone 3 STC load

Appliance/ system type Fuel type performance

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

Minimum efficiency/ Recommended

Appliance/ system type Fuel type performance capacity

No Whole of Home performance assessment conducted 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.

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.

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 – exposed	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 – protected	terrain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
Horizontal shading feature	provides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from upper levels.
National Construction Code (NCC) Class	the NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or 4 buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
Net zero home	a home that achieves a net zero energy value*.
Opening percentage	the openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
Provisional value	an assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a provisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can be found at www.nathers.gov.au
Recommended capacity	this is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or zones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate 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	the fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently
(SHGC)	released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.

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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)