Nationwide House Energy Rating Scheme[®] NatHERS[®] Certificate No. 7SK6LD6C63-01

Generated on 20 Dec 2024 using FirstRate5: 5.5.5a (3.22)

Property

Address 3 Forbes Street,

Moama, NSW, 2731

Lot/DP 1/DP851678 NCC Class* Class 1a

Floor/all Floors

Type New Home

Plans

Main plan 24-094/20.12.24 Prepared by Shaun Amos

Construction and environment

Assessed floor area [m2]*

Conditioned* 223.6

Unconditioned* 404 Total 627.6

Garage 394.4

Exposure type

protected

NatHERS climate zone

27 Mildura AMO



Accredited assessor

Name Shaun Amos
Business name Sap Architecture

Email shaun@saparchitecture.com.au

 Phone
 0499322692

 Accreditation No.
 DMN/19/1941

Assessor Accrediting Organisation

Design Matters National

Declaration of interest Yes, managed

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	43.7	35.1
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=7SK6LD6C63-01 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

Nο

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.

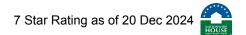
Cost:

No Whole of Home performance assessment conducted for this certificate.

Graph key:

Certificate check	Approval	stage	Construct stage	ction	
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 '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	Construc 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	tHERS a	ssessme	nt)	
Thermal bridging					
Does the dwelling meet the NCC requirement for thermal bridging?					
Insulation installation method	·	'	<u>'</u>		
Has the insulation been installed according to the NCC requirements?					
Building sealing	I				
Does the dwelling meet the NCC requirements for Building Sealing?					
Whole of Home performance check (not applicable if a Whole of Home performance check)	ormance 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 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 include, but are not limited to: condensation, structural and fire safety requirements energy efficiency requirements.					
dditional notes					
eclaration of interest: am the designer of the building					
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Room schedule

Room	Zone Type	Area [m²]
Garage 1	garage	197.2
Store	dayTime	85.8
WC	dayTime	2.2
L'Dry	unconditioned	3.6
Store	dayTime	28.2
Bedroom 6	bedroom	10.8
Unconditioned 7	unconditioned	6
Bedroom 8	bedroom	10.8
WC	dayTime	2.2
Night 10	nightTime	6.6
Night 11	nightTime	9.5
Bedroom 12	bedroom	18
Kitchen/Living 13	kitchen	54.6
Garage 14	garage	197.2

Window and glazed door type and performance

Default* windows

Window ID				Substitution tolerance ranges		
	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
No Data Availa	able					

Custom* windows

			Substitution to	lerance ranges
Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
729/730 Thermal Heart Bifold Door DG 638VLm/12Ar/6SE	2.58	0.42	0.4	0.44
726 Thermal Heart Fixed Window SG LightbridgeNeutralSI_638_12Ar_6mm	2.05	0.35	0.33	0.37
549 ED Al Entry Door DG 017_AGG MAX Clr lam 6_8_638	3.34	0.19	0.18	0.2
602 Magnum Al Sliding Window DG 4EnviroClr-10Ar-4KlymetShieldClr	3.97	0.46	0.44	0.48
729/730 Thermal Heart Bifold Door DG 6.38CPGy/12/6	2.8	0.39	0.37	0.41
Thermally Broken Fixed Lite Window DG 01 - LightBridge_ClrS0_4-12-4	1.84	0.51	0.48	0.54
	729/730 Thermal Heart Bifold Door DG 638VLm/12Ar/6SE 726 Thermal Heart Fixed Window SG LightbridgeNeutralSI_638_12Ar_6mm 549 ED Al Entry Door DG 017_AGG MAX Clr lam 6_8_638 602 Magnum Al Sliding Window DG 4EnviroClr-10Ar-4KlymetShieldClr 729/730 Thermal Heart Bifold Door DG 6.38CPGy/12/6 Thermally Broken Fixed Lite Window	Window description 729/730 Thermal Heart Bifold Door DG 638VLm/12Ar/6SE 2.58 726 Thermal Heart Fixed Window SG LightbridgeNeutralSI_638_12Ar_6mm 549 ED Al Entry Door DG 017_AGG MAX Clr lam 6_8_638 602 Magnum Al Sliding Window DG 4EnviroClr-10Ar-4KlymetShieldClr 729/730 Thermal Heart Bifold Door DG 6.38CPGy/12/6 Thermally Broken Fixed Lite Window 1.84	Window descriptionU-value*SHGC*729/730 Thermal Heart Bifold Door DG 638VLm/12Ar/6SE2.580.42726 Thermal Heart Fixed Window SG LightbridgeNeutralSI_638_12Ar_6mm2.050.35549 ED Al Entry Door DG 017_AGG MAX Clr lam 6_8_6383.340.19602 Magnum Al Sliding Window DG 4EnviroClr-10Ar-4KlymetShieldClr3.970.46729/730 Thermal Heart Bifold Door DG 6.38CPGy/12/62.80.39Thermally Broken Fixed Lite Window1.840.51	Window description Maximum U-value* SHGC* SHGC lower limit 729/730 Thermal Heart Bifold Door DG 638VLm/12Ar/6SE 2.58 0.42 0.4 726 Thermal Heart Fixed Window SG LightbridgeNeutralSI_638_12Ar_6mm 2.05 0.35 0.33 549 ED Al Entry Door DG 017_AGG MAX CIr lam 6_8_638 3.34 0.19 0.18 602 Magnum Al Sliding Window DG 4EnviroClr-10Ar-4KlymetShieldClr 3.97 0.46 0.44 729/730 Thermal Heart Bifold Door DG 6.38CPGy/12/6 2.8 0.39 0.37 Thermally Broken Fixed Lite Window 1.84 0.51 0.48

Window and glazed door schedule



Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
AWS-034-37 B	Opening 6	2400	4250	casement	90.0	W	No
AWS-034-37 B	Opening 7	2400	4250	casement	90.0	W	No
AWS-049-07 B	Opening 5	2400	2200	fixed	0.0	S	No
AWS-019-62 A	Opening 4	2340	820	casement	90.0	S	No
VAN-003-84 A	Opening 3	600	2400	sliding	45.0	S	No
VAN-003-84 A	Opening 1	600	2400	sliding	45.0	E	No
VAN-003-84 A	Opening 2	600	1800	sliding	45.0	E	No
VAN-003-84 A	Opening 16	600	2400	sliding	45.0	E	No
VAN-003-84 A	Opening 17	600	1800	sliding	45.0	E	No
VAN-003-84 A	Opening 18	600	2400	sliding	45.0	S	No
AWS-034-17 B	Opening 23	2400	4250	casement	90.0	W	No
AWS-034-17 B	Opening 22	2400	4250	casement	90.0	W	No
RYL-402-040 B	Opening 19	2400	1200	fixed	0.0	S	No
RYL-402-040 B	Opening 20	2400	1200	fixed	0.0	S	No
RYL-402-040 B	Opening 21	2400	1200	fixed	0.0	S	No
	AWS-034-37 B AWS-034-37 B AWS-049-07 B AWS-019-62 A VAN-003-84 A VAN-003-84 A VAN-003-84 A VAN-003-84 A AWS-034-17 B AWS-034-17 B RYL-402-040 B	AWS-034-37 B Opening 6 AWS-034-37 B Opening 7 AWS-049-07 B Opening 5 AWS-019-62 A Opening 4 VAN-003-84 A Opening 1 VAN-003-84 A Opening 2 VAN-003-84 A Opening 16 VAN-003-84 A Opening 17 VAN-003-84 A Opening 17 VAN-003-84 A Opening 17 VAN-003-84 A Opening 18 AWS-034-17 B Opening 23 AWS-034-17 B Opening 22 RYL-402-040 B Opening 19 RYL-402-040 B Opening 20	Window ID Window no. [mm] AWS-034-37 B Opening 6 2400 AWS-034-37 B Opening 7 2400 AWS-049-07 B Opening 5 2400 AWS-019-62 A Opening 4 2340 VAN-003-84 A Opening 3 600 VAN-003-84 A Opening 1 600 VAN-003-84 A Opening 2 600 VAN-003-84 A Opening 16 600 VAN-003-84 A Opening 17 600 VAN-003-84 A Opening 18 600 AWS-034-17 B Opening 23 2400 AWS-034-17 B Opening 22 2400 RYL-402-040 B Opening 20 2400 RYL-402-040 B Opening 20 2400	Window IDWindow no.[mm][mm]AWS-034-37 BOpening 624004250AWS-034-37 BOpening 724004250AWS-049-07 BOpening 524002200AWS-019-62 AOpening 42340820VAN-003-84 AOpening 36002400VAN-003-84 AOpening 16002400VAN-003-84 AOpening 26001800VAN-003-84 AOpening 166002400VAN-003-84 AOpening 176001800VAN-003-84 AOpening 186002400AWS-034-17 BOpening 2324004250AWS-034-17 BOpening 2224004250RYL-402-040 BOpening 1924001200RYL-402-040 BOpening 2024001200	Window ID Window no. [mm] [mm] Window type AWS-034-37 B Opening 6 2400 4250 casement AWS-034-37 B Opening 7 2400 4250 casement AWS-049-07 B Opening 5 2400 2200 fixed AWS-019-62 A Opening 4 2340 820 casement VAN-003-84 A Opening 3 600 2400 sliding VAN-003-84 A Opening 1 600 2400 sliding VAN-003-84 A Opening 16 600 2400 sliding VAN-003-84 A Opening 17 600 1800 sliding VAN-003-84 A Opening 18 600 2400 sliding VAN-003-84 A Opening 23 2400 4250 casement AWS-034-17 B Opening 22 2400 4250 casement AWS-034-17 B Opening 19 2400 1200 fixed RYL-402-040 B Opening 20 2400 1200 fixed	Window ID Window no. [mm] [mm] Window type Opening % AWS-034-37 B Opening 6 2400 4250 casement 90.0 AWS-034-37 B Opening 7 2400 4250 casement 90.0 AWS-049-07 B Opening 5 2400 2200 fixed 0.0 AWS-019-62 A Opening 4 2340 820 casement 90.0 VAN-003-84 A Opening 3 600 2400 sliding 45.0 VAN-003-84 A Opening 1 600 2400 sliding 45.0 VAN-003-84 A Opening 16 600 2400 sliding 45.0 VAN-003-84 A Opening 17 600 1800 sliding 45.0 VAN-003-84 A Opening 18 600 2400 sliding 45.0 VAN-003-84 A Opening 18 600 2400 sliding 45.0 VAN-003-84 A Opening 23 2400 4250 casement 90.0 AWS-034-17 B<	Window ID Window no. [mm] [mm] Window type Opening % Orientation AWS-034-37 B Opening 6 2400 4250 casement 90.0 W AWS-034-37 B Opening 7 2400 4250 casement 90.0 W AWS-049-07 B Opening 5 2400 2200 fixed 0.0 S AWS-019-62 A Opening 4 2340 820 casement 90.0 S VAN-003-84 A Opening 3 600 2400 sliding 45.0 E VAN-003-84 A Opening 1 600 2400 sliding 45.0 E VAN-003-84 A Opening 16 600 2400 sliding 45.0 E VAN-003-84 A Opening 17 600 1800 sliding 45.0 E VAN-003-84 A Opening 18 600 2400 sliding 45.0 E VAN-003-84 A Opening 23 2400 4250 casement 90.0 <td< td=""></td<>

Roof window* type and performance value

Default* roof windows

Window ID				Substitution tolerance ranges		
	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	
No Data Available						

Roof window* schedule

No Data Ava	vilable							
Location	Window ID	Window no.	%	[m²]	[mm]	Orientation	shade	shade
			Opening	g Area	wiatn		Outdoor	inaoor

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

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7 Star Rating as of 20 Dec 2024

No Data Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation	
Garage 1	2340	820	100.0	N	
Garage 1	3000	4000	100.0	W	
Garage 1	3000	4000	100.0	W	
Garage 1	3000	4000	100.0	W	

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	SAp - 150 Concrete	0.5	Medium		No
2	FR5 - Brick Veneer	0.5	Medium		No
3	SAp - Concrete Veneer	0.5	Medium	Polyurethane rigid foamed aged (k = 0.028) (R1.1);Rockwool batt (k = 0.033) (R2.7)	

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Garage 1	1	3000	13282	N	0	No
Garage 1	1	3000	14849	W	0	No
Garage 1	2	2700	140	S	0	Yes
Garage 1	2	2700	140	S	0	Yes
Garage 1	1	3000	14849	E	0	No
Store	3	2700	9423	W	4979	No
Store	3	2700	7789	S	0	No
L'Dry	3	2700	1994	S	0	No
Store	3	2700	2997	S	0	No
Store	3	2700	9418	E	0	No
Bedroom 6	3	2700	3602	E	0	No
Unconditioned 7	3	2700	1998	E	0	No
Bedroom 8	3	2700	2997	S	0	No
Bedroom 8	3	2700	3598	E	0	No
Bedroom 12	3	2700	4499	W	4979	No
Kitchen/Living 13	3	2700	4830	W	4979	No
Kitchen/Living 13	3	2700	9892	S	0	No
Garage 14	2	2700	140	S	0	Yes

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7 Star Rating as of 20 Dec 2024



Garage 14	2	2700	140	S	0	Yes
Garage 14	1	2700	14849	E	0	No
Garage 14	1	2700	13282	N	0	No
Garage 14	1	2700	14849	W	0	No

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	SAp - Concrete Veneer	69	Polyurethane rigid foamed aged (k = 0.028) (R1.1);Rockwool batt (k = 0.033) (R2.7)
2	FR5 - Internal Plasterboard Stud Wall	47.6	Rockwool batt: R2.5 (R2.5)
3	FR5 - Internal Plasterboard Stud Wall	103.8	

Floor type

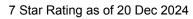
			Sub-floor	Added insulat	ion
Location	Construction	Area [m²]	ventilation	[R-value]	Covering
Garage 1	FR5 - CSOG: Slab on Ground	197.2	Enclosed	R0.0	none
Store	FR5 - CSOG: Slab on Ground	85.8	Enclosed	R2.3	none
WC	FR5 - CSOG: Slab on Ground	2.2	Enclosed	R2.3	none
L'Dry	FR5 - CSOG: Slab on Ground	3.6	Enclosed	R2.3	none
Store	FR5 - CSOG: Slab on Ground	28.2	Enclosed	R2.3	none
Bedroom 6	sap - Alpha Floor	10.8	Enclosed	R6.0	Carpet
Unconditioned 7	sap - Alpha Floor	6	Enclosed	R6.0	Tiles
Bedroom 8	sap - Alpha Floor	10.8	Enclosed	R6.0	Carpet
WC	sap - Alpha Floor	2.2	Enclosed	R6.0	Tiles
Night 10	sap - Alpha Floor	6.6	Enclosed	R6.0	Tiles
Night 11	sap - Alpha Floor	9.5	Enclosed	R6.0	Carpet
Bedroom 12	sap - Alpha Floor	18	Enclosed	R6.0	Carpet
Kitchen/Living 13	sap - Alpha Floor	54.6	Enclosed	R6.0	Concrete
Garage 14	FR5 - Timber	197.2	Enclosed	R0.0	Timber (Mountain ash

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Garage 1	FR5 - Timber	R0.0	No
Store	sap - Alpha Floor	R6.0	No
WC	sap - Alpha Floor	R6.0	No
L'Dry	sap - Alpha Floor	R6.0	No

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Store	sap - Alpha Floor	R6.0	No
Bedroom 6	Plasterboard	R7.8	No
Unconditioned 7	Plasterboard	R7.8	No
Bedroom 8	Plasterboard	R7.8	No
WC	Plasterboard	R7.8	No
Night 10	Plasterboard	R7.8	No
Night 11	Plasterboard	R7.8	No
Bedroom 12	Plasterboard	R7.8	No
Kitchen/Living 13	Plasterboard	R7.8	No
Garage 14	Plasterboard	R7.8	No

Ceiling penetrations*

			Height	Width	
Location	Quantity	Type	[mm]	[mm]	Sealed/unsealed
No Data Available					

Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

Roof type

	Added insulation	1		
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		Steel thickness	Thermal break
Building element	[height x width, mm]	Frame spacing [mm]	[BMT,mm]	[R-value]
Cathedral ceiling/flat roof	200 x 75	900	1.50	0.2

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.

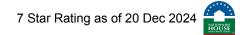
Cooling system

			Minimum efficiency/	Recommended
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.				

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Hot water system

Minimum

efficiency/ Hot Water CER

Assessed daily ne 3 STC load

Appliance/ system type Fuel type performance Zone 3 STC

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

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 ventilated 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.

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7 Star Rating as of 20 Dec 2024

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)