Nationwide House Energy Rating Scheme® NatHERS® Certificate No. EVC4IMOWX7

Generated on 4 Mar 2025 using FirstRate5: 5.5.5a (3.22)

Property

Address A, 93 CROWN ROAD,

QUEENSCLIFF, NSW, 2096

Lot/DP 1/17127 NCC Class* Class 1a

Floor/all Floors

Type New Home

Plans

Main plan ISSUE 1.5 - 12.2.2025 Prepared by EMMA MACINDOE

Construction and environment

Assessed floor area [m²]* Exposure type
Conditioned* 156.3 suburban

Unconditioned* 63.7 NatHERS climate zone

Total 220 56 Mascot AMO

Garage 52.8



Accredited assessor

Name Stephen Sum

Business name S2 Building Sustainability Services

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Accreditation No. 101558

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]

For more information on your dwelling's rating see:

www.nathers.gov.au

Limits taken from ABCB Standard 2022

	Heating	Cooling		
Modelled	17.9	8.8		
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=EVC4IMOWX7 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	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 '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	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	atHERS a	ssessme	nt)	
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 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 include, but are not limited to: condensation, structural and fire safety requirements					

energy efficiency requirements.

Additional notes

Room schedule

Zone Type	Area [m²]
garage	52.8
dayTime	1
bedroom	15
unconditioned	4.5
dayTime	2.1
dayTime	16.2
kitchen	52.2
dayTime	1
bedroom	15.1
unconditioned	6.3
dayTime	19.6
dayTime	1
bedroom	22.5
nightTime	6.4
bedroom	12.4
	garage dayTime bedroom unconditioned dayTime dayTime kitchen dayTime bedroom unconditioned dayTime bedroom unconditioned dayTime bedroom ightTime

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	
ALM-002-03 A	Aluminium B SG High Solar Gain Low-E	5.4	0.58	0.55	0.61	
TIM-002-03 W	Timber B SG High Solar Gain Low-E	4.3	0.5	0.48	0.53	

Custom* windows

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

Window and glazed door schedule

Window ID	Window no.	Height [mm]	Width [mm]	Window type	Opening %	Orientation	Window shading device*
ALM-002-03 A	B4-1.05	1800	700	double_hung	45.0	S	No
ALM-002-03 A	B4-1.52	1800	1050	double_hung	45.0	S	No
ALM-002-03 A	B4-1.05	1800	700	double_hung	45.0	W	No
ALM-002-03 A	LDRY - C	1800	700	double_hung	45.0	W	No
ALM-002-03 A	LDRY - C	1800	700	double_hung	45.0	W	No
	ALM-002-03 A ALM-002-03 A ALM-002-03 A ALM-002-03 A	ALM-002-03 A B4-1.05 ALM-002-03 A B4-1.52 ALM-002-03 A B4-1.05 ALM-002-03 A LDRY - C	Window ID Window no. [mm] ALM-002-03 A B4-1.05 1800 ALM-002-03 A B4-1.52 1800 ALM-002-03 A B4-1.05 1800 ALM-002-03 A LDRY - C 1800	Window ID Window no. [mm] [mm] ALM-002-03 A B4-1.05 1800 700 ALM-002-03 A B4-1.52 1800 1050 ALM-002-03 A B4-1.05 1800 700 ALM-002-03 A LDRY - C 1800 700	Window ID Window no. [mm] [mm] Window type ALM-002-03 A B4-1.05 1800 700 double_hung ALM-002-03 A B4-1.52 1800 1050 double_hung ALM-002-03 A B4-1.05 1800 700 double_hung ALM-002-03 A LDRY - C 1800 700 double_hung	Window ID Window no. [mm] [mm] Window type Opening % ALM-002-03 A B4-1.05 1800 700 double_hung 45.0 ALM-002-03 A B4-1.52 1800 1050 double_hung 45.0 ALM-002-03 A B4-1.05 1800 700 double_hung 45.0 ALM-002-03 A LDRY - C 1800 700 double_hung 45.0	Window ID Window no. [mm] [mm] Window type Opening % Orientation ALM-002-03 A B4-1.05 1800 700 double_hung 45.0 S ALM-002-03 A B4-1.52 1800 1050 double_hung 45.0 S ALM-002-03 A B4-1.05 1800 700 double_hung 45.0 W ALM-002-03 A LDRY - C 1800 700 double_hung 45.0 W



ENTRY	TIM-002-03 W	ENTRY HIGHLIGHT	2300	651	double_hung	0.0	W	No
LKD	TIM-002-03 W	LKD - 11.07 NORTH GF	2600	3882	sliding	45.0	N	No
LKD	TIM-002-03 W	LKD - 2.65	2600	800	double_hung	45.0	N	No
LKD	TIM-002-03 W	LKD - 0.8X2.6	2600	900	double_hung	45.0	W	No
LKD	TIM-002-03 W	LKD - 1.52	2600	880	double_hung	45.0	S	No
LKD	TIM-002-03 W	LKD SLIDE DOOR	2600	3227	sliding	45.0	W	No
B3	ALM-002-03 A	B3 FF TYPE D	2100	700	double_hung	10.0	S	No
B3	ALM-002-03 A	B3 FF TYPE E	2100	1050	double_hung	10.0	S	No
В3	ALM-002-03 A	B3 TYPE C	1600	700	double_hung	10.0	W	No
В3	ALM-002-03 A	BATH TYPE C	1600	700	double_hung	10.0	W	No
BATHROOM	ALM-002-03 A	BATH TYPE C	1600	700	double_hung	10.0	W	No
HALLWAY/DESK	ALM-002-03 A	DESK TYPE B	1600	700	double_hung	10.0	W	No
МВ	TIM-002-03 W	NORTH FF SLIDING	2500	3882	sliding	45.0	N	No
ENSUITE	ALM-002-03 A	ENSUITE SLIDE	300	1800	sliding	45.0	W	No
B2	ALM-002-03 A	B2 TYPE A	650	2100	double_hung	45.0	W	No

Roof window* type and performance value

Default* roof windows

				Substitution tolerance 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-011-01 W	VELUX FS - Fixed Skylight DG 3mm LoE 366 / 8.5mm Argon Gap / 5.36mm Clear La	2.58	0.24	0.23	0.25	

Roof window* schedule

Location	Window ID	Window no.	Opening %	Area [m²]	Width [mm]	Orientation	Outdoor shade	Indoor shade
BATHROOM	Velux:VEL-011-01 W	SL - BATH	0.0	1.1	0	N	None	None
HALLWAY/DESK	Velux:VEL-011-01 W	SL - STAIR HALL	0.0	1.1	0	N	None	None
HALLWAY/DESK	Velux:VEL-011-01 W	SL - STAIR	0.0	1.1	0	N	None	None

7.3 Star Rating as of 4 Mar 2025



ENSUITE

Velux:VEL-011-01 W

Skylight ID

SL-ENSUITE

0.0

0

3

Ν

[m²]

ation

None

None

Diffuser

Skylight* type and performance

Skylight ID **Skylight description** Skylight shaft reflectance

No Data Available

Skylight* schedule

Skylight shaft Area Orient-Outdoor Skylight No. length [mm] shade

Location No Data

Available

External door schedule

Location	Height [mm]	Width [mm]	Opening %	Orientation
GARAGE	2200	3400	90.0	S
ENTRY	2250	1020	90.0	W

External wall type

1 CAVITY BRICK INSULATED 0.5 Medium Polystyrene expanded: R1.0 (R1.0) No 2 DINCEL PARTY WALL 0.5 Medium Polystyrene expanded: R2.0 (R2.0) No 3 FR5 - Earth Retaining Wall 0.5 Medium No 4 FR5 - Fibro Clad Framed 0.5 Medium Rockwool batt: R2.5 (R2.5) Yes 5 CAVITY BRICK PARTY WALL 0.5 Medium Polystyrene expanded: R1.0 (R1.0) No 6 FR5 - Single Brick Finished 0.5 Medium No	Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
2 DINCEL PARTY WALL 0.5 Medium R2.0 (R2.0) No R7.0 (R2.0) No 4 FR5 - Fibro Clad Framed 0.5 Medium R0.5 Rockwool batt: R2.5 (R2.5) FR5 - Fibro Clad Framed 0.5 Medium R0.6 Rockwool batt: R2.5 (R2.5) No CAVITY BRICK PARTY WALL 0.5 Medium Polystyrene expanded: R1.0 (R1.0)	1	CAVITY BRICK INSULATED	0.5	Medium	• •	No
4 FR5 - Fibro Clad Framed 0.5 Medium Rockwool batt: R2.5 (R2.5) 5 CAVITY BRICK PARTY WALL 0.5 Medium Polystyrene expanded: R1.0 (R1.0)	2	DINCEL PARTY WALL	0.5	Medium		No
4 FR5 - Fibro Clad Framed 0.5 Medium (R2.5) 5 CAVITY BRICK PARTY WALL 0.5 Medium Polystyrene expanded: R1.0 (R1.0)	3	FR5 - Earth Retaining Wall	0.5	Medium		No
5 CAVITY BRICK PARTY WALL 0.5 Medium R1.0 (R1.0)	4	FR5 - Fibro Clad Framed	0.5	Medium		Yes
6 FR5 - Single Brick Finished 0.5 Medium No	5	CAVITY BRICK PARTY WALL	0.5	Medium	• •	No
	6	FR5 - Single Brick Finished	0.5	Medium		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	2325	4215	S	875	Yes
GARAGE	2	2325	8186	E	0	No
GARAGE	2	2325	3517	E	0	No
GARAGE	3	2325	4181	N	0	No
GARAGE	3	2325	12931	W	0	No
LIFT LG	2	2325	934	E	0	No
B4	1	2600	733	S	0	Yes
B4	4	2600	589	W	0	Yes

7.3 Star Rating as of 4 Mar 2025

NATIONWIDE HOUSE

B4	4	2600	1718	S	0	No
B4	4	2600	393	Е	0	Yes
B4	1	2600	1697	S	0	Yes
B4	5	2600	3490	Е	0	No
B4	1	2600	3327	W	1195	Yes
WC/LDRY	1	2600	2536	W	1188	Yes
POWDER ROOM	1	2600	1158	W	1225	Yes
ENTRY	5	2600	5045	Е	0	No
ENTRY	1	2600	701	W	0	Yes
ENTRY	1	2600	1376	W	1232	Yes
LKD	5	2600	10679	E	0	No
LKD	1	2600	5341	N	1104	Yes
LKD	1	2600	6683	W	0	Yes
LKD	1	2600	1222	S	0	Yes
LKD	1	2600	3976	W	0	Yes
LIFT GF	6	2400	938	Е	0	No
B3	1	2500	856	S	925	No
B3	4	2500	392	W	1581	Yes
B3	4	2500	1639	S	655	No
B3	4	2500	403	Е	1646	Yes
B3	1	2500	1670	S	892	Yes
B3	5	2500	3500	E	0	No
B3	1	2500	3509	W	713	Yes
BATHROOM	1	2500	3748	W	582	Yes
HALLWAY/DESK	5	2500	5034	Е	0	No
HALLWAY/DESK	5	2500	2402	E	0	No
HALLWAY/DESK	1	2500	1596	W	620	Yes
LIFT LV1	5	2500	918	E	0	No
MB	5	2500	8149	E	0	No
MB	1	2500	3956	N	1707	Yes
MB	4	2500	471	N	1835	Yes
MB	4	2500	4143	W	0	Yes
ENSUITE	1	2500	287	S	0	Yes
ENSUITE	4	2500	1990	W	0	Yes
B2	1	2500	4938	W	629	Yes

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	SINGLE BRICK 2 PB	98.6	



2 FR5 - Internal Plasterboard Stud Wall

25.6

Floor type

			Sub-floor	Added insulation	
Location	Construction		ventilation	[R-value]	Covering
GARAGE	conc slab on ground 250	52.8	Enclosed	R2.0	none
LIFT LG	conc slab on ground 250	1	Enclosed	R2.0	none
B4	FR5 - 200mm concrete slab Lined	12.3	Enclosed	R2.0	Carpet
B4	FR5 - 200mm concrete slab	2.5	Elevated	R2.0	Carpet
WC/LDRY	FR5 - 200mm concrete slab Lined	4.5	Enclosed	R2.0	Vinyl
POWDER ROOM	FR5 - 200mm concrete slab Lined	2.1	Enclosed	R2.0	Vinyl
ENTRY	FR5 - 200mm concrete slab Lined	16.2	Enclosed	R2.0	Vinyl
LKD	conc slab on ground 250	31	Enclosed	R2.0	Vinyl
LKD	FR5 - 200mm concrete slab Lined	16.1	Enclosed	R2.0	Vinyl
LKD	conc slab on ground 250	4.6	Enclosed	R2.0	Vinyl
LIFT GF	FR5 - 200mm concrete slab	1	Enclosed	R0.0	none
33	FR5 - 200mm concrete slab Lined	15.1	Enclosed	R0.0	Carpet
BATHROOM	FR5 - 200mm concrete slab Lined	6.3	Enclosed	R0.0	Vinyl
HALLWAY/DESK	FR5 - 200mm concrete slab Lined	19.6	Enclosed	R0.0	Vinyl
LIFT LV1	FR5 - 200mm concrete slab Lined	1	Enclosed	R0.0	Vinyl
MB	FR5 - 200mm concrete slab Lined	22.5	Enclosed	R0.0	Carpet
ENSUITE	FR5 - 200mm concrete slab Lined	6.4	Enclosed	R0.0	Vinyl
B2	FR5 - 200mm concrete slab Lined	12.4	Enclosed	R0.0	Carpet

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
GARAGE	FR5 - 200mm concrete slab Lined	R2.0	No
GARAGE	Plasterboard	R0.0	No
LIFT LG	FR5 - 200mm concrete slab	R0.0	No



B4	FR5 - 200mm concrete slab Lined	R0.0	No
B4	FR5 - 200mm concrete slab Lined	R0.0	No
WC/LDRY	FR5 - 200mm concrete slab Lined	R0.0	No
POWDER ROOM	FR5 - 200mm concrete slab Lined	R0.0	No
ENTRY	FR5 - 200mm concrete slab Lined	R0.0	No
LKD	FR5 - 200mm concrete slab Lined	R0.0	No
LKD	Plasterboard	R0.0	No
LKD	FR5 - 200mm concrete slab Lined	R0.0	No
LKD	Plasterboard	R2.0	No
LIFT GF	FR5 - 200mm concrete slab Lined	R0.0	No
B3	Plasterboard	R3.0	No
BATHROOM	Plasterboard	R3.0	No
HALLWAY/DESK	Plasterboard	R3.0	No
LIFT LV1	Plasterboard	R3.0	No
MB	Plasterboard	R3.0	No
ENSUITE	Plasterboard	R3.0	No
B2	Plasterboard	R3.0	No

Ceiling penetrations*

			Height	Width	
Location	Quantity	Туре	[mm]	[mm]	Sealed/unsealed
GARAGE	10	Downlights	90	90	Sealed
LIFT LG	1	Downlights	90	90	Sealed
B4	3	Downlights	90	90	Sealed
WC/LDRY	1	Downlights	90	90	Sealed
WC/LDRY	1	Exhaust Fans	250	250	Sealed
POWDER ROOM	1	Downlights	90	90	Sealed
ENTRY	3	Downlights	90	90	Sealed
LKD	10	Downlights	90	90	Sealed
LKD	1	Exhaust Fans	250	250	Sealed
B3	3	Downlights	90	90	Sealed
BATHROOM	1	Downlights	90	90	Sealed
BATHROOM	1	Exhaust Fans	250	250	Sealed
HALLWAY/DESK	4	Downlights	90	90	Sealed

7.3 Star Rating as of 4 Mar 2025

A	P
HC	ÜSE

LIFT LV1	1	Downlights	90	90	Sealed
MB	5	Downlights	90	90	Sealed
ENSUITE	1	Downlights	90	90	Sealed
ENSUITE	1	Exhaust Fans	250	250	Sealed
B2	2	Downlights	90	90	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
No Data Available		

Roof type

	Added insulation		
Construction	[R-value]	Solar absorptance	Roof shade [colour]
Ceil: Ceiling	0.0	0.5	Medium
Slab:Slab - Suspended Slab : 200mm: 200mm Suspended Slab	0.0	0.5	Medium
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]

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

			Minimum efficiency/	Recommended
Appliance/ system type	Location	Fuel type	performance	capacity
No Whole of Home performa	ance assessment co	enducted for this certification	ate.	

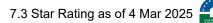
Heating system

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

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 perform	ance assessment	conducted for this certi	ficate.		

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 AFRC Assessed floor area Ceiling penetrations Conditioned	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions. Australian Fenestration Rating Council 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. 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.
Assessed floor area Ceiling penetrations Conditioned	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. 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.
Ceiling penetrations Conditioned	area in the design documents. 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	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.
	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.
COP	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 – 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	
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)	
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.
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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.

7.3 Star Rating as of 4 Mar 2025

HOUSE	

Small-scale Technology Certificates, certificates created by the REC registry for renewable energy technologies that may 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 indicates not limited to, materials such as timber battens greater than or equal to 20mm thick, continuous thermal breaks such as 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. Indicate 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 eaves and balconies)	INSEL BEING TOWN
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