Nationwide House Energy Rating Scheme® NatHERS® Certificate No. PJQZ6QTLIL-02

Generated on 30 Apr 2025 using FirstRate5: 5.5.5a (3.22)

Property

Address 1, 12B John Street Avalon,

Avalon, NSW, 2107

Lot/DP 1/DP1237357 NCC Class* Class 1a

Floor/all Floors

Type **New Home**

Plans

Main plan Issue C 28/04/2025 Prepared by **THW Architects**

Construction and environment

Assessed floor area [m2]* **Exposure type** Conditioned* 173.2 suburban

NatHERS climate zone Unconditioned* 14.5

Total 187.7 56 Mascot AMO

Garage



Jennifer Edwards Name **Business name** LivSmart Solutions

Email contact@livsmartsolutions.com.au

Phone 0414405009 Accreditation No. DMN/17/1795

Assessor Accrediting Organisation

Design Matters National

Declaration of interest No

NCC Requirements

NCC provisions Volume 2 State/Territory variation

National Construction Code (NCC) requirements

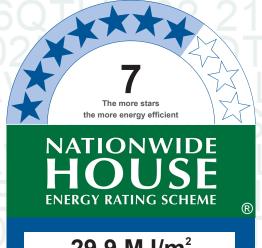
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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



29.9 MJ/m²

Predicted annual energy load for heating and cooling based on standard occupancy assumptions.

> For more information on your dwelling's rating see: www.nathers.gov.au

Thermal performance [MJ/m²]

Limits taken from ABCB Standard 2022

Heating	Cooling
17.7	12.2
N/A	N/A
	17.7

Features determining load limits

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=PJQZ6QTLIL-0 2 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

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	tion	
The checklist covers important items impacting the dwelling's ratings. It is recommended that the accuracy of the whole certificate is checked.	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Note: The boxes indicate when and who should check each item. It is not mandatory to complete this checklist.	Assess	Conser	Builder	Conser	Occupe
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*		I	1		
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		I			
Does the external roof shade (colour) on the NatHERS stamped plans or as installed match what is shown in the 'Roof type' table on this Certificate?					
Apartment entrance doors (NCC Class 2 assessments only)					
Does the 'External Door Schedule' show apartment entrance doors? Please note that an "external door" between the modelled dwelling and a shared space, such as an enclosed corridor or foyer, should not be included in the assessment (because it overstates the possible ventilation) and would invalidate the Certificate.					
Exposure*					
Has the appropriate exposure type (terrain) (shown on page 1) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".					
Heating and cooling load limits*					
Do the load limits settings (shown on page 1) match the values in the ABCB Standard 2022: NAtHERS heating and cooling load limits for the appropriate climate zone?					

	Approval	stage	Construct stage	tion	
Certificate check Continued	Assessor checked	Consent authority/ surveyor checked	Builder checked	Consent authority/ surveyor checked	Occupancy/other
Additional NCC requirements for thermal performance (not included	in the Na	tHERS 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 performance check)	formance a	ssessmen	t is not con	ducted)	
Appliances					
Does the cooling appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the Appliance schedule on this Certificate?					
Does the heating appliance/s type, location and efficiency/performance shown on the NatHERS-stamped plans or installed, match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the hot water system type and efficiency/performance shown on the NatHERS-stamped plans or as installed match the location and minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the pool pump efficiency/performance shown on the NatHERS-stamped plans or as installed match the minimum efficiency/performance requirements shown in the 'Appliance schedule' on this Certificate?					
Does the onsite renewable energy system type, orientation and system size or generation capacity shown on the NatHERS stamped plans or installed match the 'Onsite Renewable Energy schedule' on this Certificate?					
Additional NCC Requirements for Services (not included in the NatH	ERS 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	quirements	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

Room schedule

Room	Zone Type	Area [m²]
Bedroom 4	bedroom	12.5
WC	unconditioned	2.8
Bedroom 3	bedroom	13.9
Bathroom	unconditioned	6.9
Laundry	unconditioned	4.7
Kitchen/Living	kitchen	61
GroundHallway	dayTime	19.4
Ensuite 2	nightTime	5.5
WIR	nightTime	6.7
Bedroom 2	bedroom	13.2
Master Bedroom	bedroom	15.6
Ensuite 1	nightTime	11.1
Hallway	dayTime	4.1
Stairs	dayTime	5.1
WIR Master	nightTime	8.5

Window and glazed door type and performance

Default* windows

Window ID				Substitution to	lerance ranges
	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
ATB-006-04 B	Al Thermally Broken B DG Argon Fill Low Solar Gain low-E -Clear	3	0.26	0.25	0.27

Custom* windows

Window ID				Substitution to	lerance ranges
	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit
JAL-002-05 A	Aluminium Louvre Secondary Glaze SG 6mmLE	3.71	0.54	0.51	0.57

Window and glazed door schedule

Window ID	Window no	Height	Width	Window type	Opening %	Orientation	Window shading device*
Williaow ID	Williadw IId.	[]	fromd	williaow type	Opening /0	Offeritation	GEVICE
JAL-002-05 A	WB10	2800	600	louvre	90.0	SW	No
JAL-002-05 A	WB01a	1200	600	louvre	90.0	SE	No
ATB-006-04 B	WB01b	1200	1800	fixed	0.0	SE	No
JAL-002-05 A	WB03a	1200	600	louvre	90.0	SE	No
	JAL-002-05 A ATB-006-04 B	JAL-002-05 A WB10 JAL-002-05 A WB01a ATB-006-04 B WB01b	Window ID Window no. [mm] JAL-002-05 A WB10 2800 JAL-002-05 A WB01a 1200 ATB-006-04 B WB01b 1200	Window ID Window no. [mm] [mm] JAL-002-05 A WB10 2800 600 JAL-002-05 A WB01a 1200 600 ATB-006-04 B WB01b 1200 1800	Window ID Window no. [mm] [mm] Window type JAL-002-05 A WB10 2800 600 louvre JAL-002-05 A WB01a 1200 600 louvre ATB-006-04 B WB01b 1200 1800 fixed	Window ID Window no. [mm] [mm] Window type Opening % JAL-002-05 A WB10 2800 600 louvre 90.0 JAL-002-05 A WB01a 1200 600 louvre 90.0 ATB-006-04 B WB01b 1200 1800 fixed 0.0	Window ID Window no. [mm] [mm] Window type Opening % Orientation JAL-002-05 A WB10 2800 600 louvre 90.0 SW JAL-002-05 A WB01a 1200 600 louvre 90.0 SE ATB-006-04 B WB01b 1200 1800 fixed 0.0 SE

Certificate

7 Star Rating as of 30 Apr 2025

Á	Ţ	à
- Н	ÖÜ	SE

Certificate								HOUSE MARIE FERRY SOMM
Bedroom 3	ATB-006-04 B	WB03b	1200	1200	fixed	0.0	SE	No
Bathroom	JAL-002-05 A	WB02a	1200	600	louvre	90.0	SE	No
Bathroom	ATB-006-04 B	WB02b	1200	1200	fixed	0.0	SE	No
Laundry	JAL-002-05 A	WB07	2800	600	louvre	90.0	SW	No
Kitchen/Living	JAL-002-05 A	WB04	2800	600	louvre	90.0	SW	No
Kitchen/Living	ATB-006-04 B	WB05	2700	8300	other	80.0	NE	No
Kitchen/Living	ATB-006-04 B	WB06B Fixed	700	2000	fixed	0.0	NW	No
Kitchen/Living	JAL-002-05 A	WB06A louvre	700	600	louvre	90.0	NW	No
Kitchen/Living	JAL-002-05 A	WB06C louvre	700	600	louvre	90.0	NW	No
GroundHallway	ATB-006-04 B	WB09a Door	2800	1100	casement	90.0	SW	No
GroundHallway	ATB-006-04 B	WB09b Side fixed	2800	900	fixed	0.0	SW	No
GroundHallway	ATB-006-04 B	WB08a	2800	4000	fixed	0.0	NW	No
GroundHallway	JAL-002-05 A	WB08b louvre	2800	800	louvre	90.0	NW	No
Ensuite 2	JAL-002-05 A	WB14	2800	600	louvre	90.0	SW	No
Bedroom 2	JAL-002-05 A	WB13a	2800	600	louvre	90.0	NE	No
Bedroom 2	ATB-006-04 B	WB13b	2800	1800	fixed	0.0	NE	No
Bedroom 2	JAL-002-05 A	WB13c	2800	600	louvre	90.0	NE	No
Master Bedroom	ATB-006-04 B	WB12a	2800	3100	sliding	45.0	NE	No
Ensuite 1	JAL-002-05 A	WB15	2800	600	louvre	90.0	SW	No
Ensuite 1	JAL-002-05 A	WB11	2800	600	louvre	90.0	SE	No
Stairs	ATB-006-04 B	WB19	1000	1500	fixed	0.0	SE	No
Stairs	ATB-006-04 B	WB18	1000	1500	fixed	0.0	NW	No
WIR Master	ATB-006-04 B	WB12b	2800	1300	sliding	45.0	NE	No

Roof window* type and performance value

Default* roof windows

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

Custom* roof windows

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

Roof window* schedule

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

Certificate

7 Star Rating as of 30 Apr 2025

A STATE OF THE PARTY OF THE PAR	A
HÖÜ	JSE

WC	Velux:VEL-010-01 W	SK03 - WC ground	90.0	0.7	0	N	None	None
Ensuite 2	Velux:VEL-010-01 W	SK01 - Ensuite 2	90.0	0.7	0	N	None	None
Ensuite 1	Velux:VEL-010-01 W	SK02 - Ensuite 2	90.0	0.7	0	N	None	None

Skylight* type and performance

Skylight ID Skylight description Skylight shaft reflectance

No Data Available

Skylight* schedule

Skylight shaft Area Orient- Outdoor

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

No Data

Available

External door schedule

 Location
 Height [mm]
 Width [mm]
 Opening %
 Orientation

 No Data Available

External wall type

Wall ID	Wall type	Solar absorptance	Wall shade [colour]	Bulk insulation [R-value]	Reflective wall wrap*
1	TBR - TimberR3.6	0.5	Medium	Polystyrene expanded (k = 0.039) (R3.6)	No
2	Cavity Brick - Brick cavity PartyRenR1.75R	0.64	Dark	Polyethylene foam (k = 0.04) (R1.8)	Yes
3	FC - Fibre-cementR3.6	0.64	Dark	Polystyrene expanded (k = 0.039) (R3.6)	No

External wall schedule

Location	Wall ID	Height [mm]	Width [mm]	Orientation	Horizontal shading feature* maximum projection [mm]	Vertical shading feature* (yes/no)
Bedroom 4	1	2800	4057	SW	372	Yes
Bedroom 4	1	2800	3075	SE	811	Yes
Bedroom 4	1	2800	586	NW	0	Yes
Bedroom 3	1	2800	3436	SE	836	Yes
Bathroom	1	2800	3064	SE	792	Yes
Laundry	1	2800	1759	SW	7452	Yes
Laundry	1	2800	2665	NW	0	Yes
Kitchen/Living	1	2800	2240	SW	219	Yes
Kitchen/Living	1	2800	2177	SE	0	Yes

Certificate

7 Star Rating as of 30 Apr 2025



Kitchen/Living	2	2800	1552	SE	0	Yes
Kitchen/Living	1	2800	2237	SE	0	Yes
Kitchen/Living	1	2800	909	NE	2745	Yes
Kitchen/Living	1	2800	9289	NE	2745	Yes
Kitchen/Living	1	2800	6012	NW	0	Yes
GroundHallway	1	2800	1854	SW	930	Yes
GroundHallway	1	2800	117	NW	0	Yes
GroundHallway	1	2800	6334	NW	1500	Yes
Ensuite 2	1	2800	2662	SW	180	Yes
Ensuite 2	1	2800	2060	NW	613	Yes
WIR	1	2800	2960	NW	607	Yes
Bedroom 2	1	2800	1038	SE	6382	Yes
Bedroom 2	1	2800	3762	NE	622	No
Bedroom 2	1	2800	3520	NW	615	Yes
Master Bedroom	1	2800	3156	NE	1658	Yes
Ensuite 1	1	2800	4062	SW	178	Yes
Ensuite 1	1	2800	2716	SE	769	Yes
Stairs	3	1	990	SW	0	No
Stairs	1	1220	3165	SE	0	Yes
Stairs	1	1220	3169	NW	0	Yes
WIR Master	1	2800	4926	SE	1231	Yes
WIR Master	1	2800	1701	NE	0	Yes
WIR Master	1	2800	290	SW	0	Yes
WIR Master	1	2800	669	SW	518	Yes

Internal wall type

Wall ID	Wall type	Area [m²]	Bulk insulation
1	Internal plasterboard - Internal plasterboard R3.6	79.1	Polystyrene expanded (k = 0.039) (R3.0)
2	FR5 - Internal Plasterboard Stud Wall	86	

Floor type

		Sub-floor	Added insulat	ion
Construction	Area [m²]	ventilation	[R-value]	Covering
TMBR - Timber R4.6	12.5	Very open	R4.6	Timber
TMBR - Timber R4.6	2.8	Very open	R4.6	Tiles
TMBR - Timber R4.6	11.4	Very open	R4.6	Timber
TMBR - Timber R4.6	2.5	Very open	R4.6	Timber
TMBR - Timber R4.6	6.9	Very open	R4.6	Timber
TMBR - Timber R4.6	4.7	Very open	R4.6	Tiles
TMBR - Timber R4.6	1.2	Very open	R4.6	Timber
	TMBR - Timber R4.6 TMBR - Timber R4.6	TMBR - Timber R4.6 12.5 TMBR - Timber R4.6 2.8 TMBR - Timber R4.6 11.4 TMBR - Timber R4.6 2.5 TMBR - Timber R4.6 6.9 TMBR - Timber R4.6 4.7	Construction Area [m²] ventilation TMBR - Timber R4.6 12.5 Very open TMBR - Timber R4.6 2.8 Very open TMBR - Timber R4.6 11.4 Very open TMBR - Timber R4.6 2.5 Very open TMBR - Timber R4.6 6.9 Very open TMBR - Timber R4.6 4.7 Very open	Construction Area [m²] ventilation [R-value] TMBR - Timber R4.6 12.5 Very open R4.6 TMBR - Timber R4.6 2.8 Very open R4.6 TMBR - Timber R4.6 11.4 Very open R4.6 TMBR - Timber R4.6 2.5 Very open R4.6 TMBR - Timber R4.6 6.9 Very open R4.6 TMBR - Timber R4.6 4.7 Very open R4.6

Certificate

7 Star Rating as of 30 Apr 2025

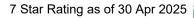
A STATE OF THE PARTY OF THE PAR	A
HO	NWIDE USE

Kitchen/Living	TMBR - Timber R4.6	4.8	Very open	R4.6	Timber
Kitchen/Living	TMBR - Timber R4.6	48.8	Very open	R4.6	Timber
Kitchen/Living	TMBR - Timber R4.6	6.1	Very open	R4.6	Timber
GroundHallway	TMBR - Timber R4.6	2.9	Very open	R4.6	Timber
GroundHallway	TMBR - Timber R4.6	5.3	Very open	R4.6	Timber
GroundHallway	TMBR - Timber R4.6	0.1	Very open	R4.6	Timber
GroundHallway	TMBR - Timber R4.6	11	Very open	R4.6	Timber
Ensuite 2	TMBR - Timber R3R	5.5	Enclosed	R3.0	Tiles
WIR	TMBR - Timber R3R	6.7	Enclosed	R3.0	Timber
Bedroom 2	TMBR - Timber R3R	13.2	Enclosed	R3.0	Timber
Master Bedroom	TMBR - Timber R3R	15.6	Enclosed	R3.0	Timber
Ensuite 1	TMBR - Timber R3R	11.1	Enclosed	R3.0	Tiles
Hallway	TMBR - Timber R3R	4.1	Enclosed	R3.0	Timber
Stairs	TMBR - Timber R3R	2.1	Enclosed	R3.0	Timber
Stairs	TMBR - Timber R3R	3.1	Enclosed	R3.0	Timber
WIR Master	TMBR - Timber R3R	8.5	Enclosed	R3.0	Timber

Ceiling type

Location	Construction material/type	Bulk insulation R-value [may include edge batt values]	Reflective wrap*
Bedroom 4	Plasterboard	R6.0	No
WC	Plasterboard	R6.0	No
Bedroom 3	TMBR - Timber R3R	R3.0	No
Bedroom 3	Plasterboard	R6.0	No
Bathroom	Plasterboard	R6.0	No
Laundry	TMBR - Timber R3R	R3.0	No
Kitchen/Living	Plasterboard	R6.0	No
Kitchen/Living	Plasterboard	R6.0	No
Kitchen/Living	TMBR - Timber R3R	R3.0	No
Kitchen/Living	Plasterboard	R6.0	No
GroundHallway	TMBR - Timber R3R	R3.0	No
GroundHallway	TMBR - Timber R3R	R3.0	No
GroundHallway	TMBR - Timber R3R	R3.0	No
GroundHallway	TMBR - Timber R3R	R3.0	No
GroundHallway	Plasterboard	R6.0	No
Ensuite 2	Plasterboard	R6.0	No
WIR	Plasterboard	R6.0	No
Bedroom 2	Plasterboard	R6.0	No
Master Bedroom	Plasterboard	R6.0	No
Ensuite 1	Plasterboard	R6.0	No

Certificate





Hallway	Plasterboard	R6.0	No
Stairs	Plasterboard	R6.0	No
Stairs	Plasterboard	R6.0	No
WIR Master	Plasterboard	R6.0	No

Ceiling penetrations*

Location	Quantity	Туре	Height [mm]	Width [mm]	Sealed/unsealed
WC	1	Exhaust Fans	200	200	Sealed
Bathroom	1	Exhaust Fans	200	200	Sealed
Laundry	1	Exhaust Fans	200	200	Sealed
Kitchen/Living	1	Exhaust Fans	160	160	Sealed
Kitchen/Living	1	Heater Flues	400	400	Unsealed
Ensuite 2	1	Exhaust Fans	200	200	Sealed
Ensuite 1	1	Exhaust Fans	200	200	Sealed

Ceiling fans

Location	Quantity	Diameter [mm]
Bedroom 4	1	1200
Bedroom 3	1	1200
Kitchen/Living	2	3000
GroundHallway	1	1400
Bedroom 2	1	1200
Master Bedroom	1	1200

Roof type

Added insulation			
Construction	[R-value]	Solar absorptance	Roof shade [colour]
Framed:Flat - Flat Framed (Metal Deck)	0.0	0.67	Dark

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

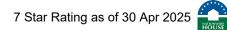
(not applicable if a Whole of Home performance assessment is not conducted for this certificate)

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 performance capacity

Certificate



No Whole of Home performance assessment conducted for this certificate.

Heating system

Appliance/ system type Location Fuel type Performance capacity

No Whole of Home performance assessment conducted for this certificate.

Hot water system

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

No Whole of Home performance assessment conducted for this certificate.

Pool/spa equipment

Appliance/ system type Fuel type Minimum efficiency/ Recommended 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

AFRC Assessed floor area the are Ceiling penetrations fees are Conditioned a circular circula	ne 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 rea in the design documents. Australian Fenestration to the ceiling, including downlights, vents, exhaust fans, range hoods, chimneys and flues. Australian Fenestration to the ceiling with small holes through the ceiling for wiring, e.g. ceiling fans; pendant lights, and heating and cooling ducts. Australian advelling that is expected to require heating and cooling based on standard occupancy assumptions. In some irrcumstances it will include garages. The formance of performance of per
Assessed floor area the area of the area o	ne 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. Beatures 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. Zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some irrounstances it will include garages. Doefficient of performance in mathematical performance in the performan
Ceiling penetrations ferent and Ceiling penetrations Conditioned COP Custom windows Since Coperation and Ceiling penetration and Ceiling penetration and Ceiling and Ceil	rea in the design documents. Beatures 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. Zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some irrounstances it will include garages. Description of performance in the performance in t
COP Custom windows with solution w	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. Zone within a dwelling that is expected to require heating and cooling based on standard occupancy assumptions. In some irrcumstances it will include garages. Zoefficient of performance vindows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating ischeme) rating. Zoefficient of performance vindows that are representative of a specific type of window product and whose properties have been derived by statistical methods. It is is your homes rating without solar or batteries. Zoefficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input this is your homes rating without solar or batteries. Zoefficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input this is your homes rating without solar or batteries. Zoefficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input this is your homes rating without solar or batteries. Zoefficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input this is your homes rating without solar or batteries. Zoefficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input this is your homes rating without solar or batteries. Zoefficient of performance Zoeffi
COP Custom windows with Science Cope Cope Cope Cope Cope Cope Cope Cop	ircumstances it will include garages. Coefficient of performance Vindows listed in NatHERS software that are available on the market in Australia and have a WERS (Window Energy Rating Incheme) rating. Vindows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Vindows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Vindows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Vindows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Vindows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Vindows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Vindows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Vindows that are representative of a specific type of window product and whose properties have been derived by statistical methods. Vindows that are representative of a window product and whose properties have been derived by statistical methods. Vindows that are representative of a window product and whose properties have been derived by statistical methods. Vindows that are representative of a window product and whose properties have been derived by statistical methods. Vindows that are representative of whose properties have been derived by statistical methods. Vindows that are representative of whose properties have been derived by statistical methods. Vindows that are representative of whose properties have been derived by statistical methods. Vindows that are representative of whose properties have been derived by statistical methods. Vindows that are representative of whose properties have been derive
Custom windows WS Since Special Specia	windows listed in Nathers software that are available on the market in Australia and have a Wers (Window Energy Rating scheme) rating. Windows that are representative of a specific type of window product and whose properties have been derived by statistical methods. In the series of the provided in the series of the provided in the series of the ser
Default windows w EER Energy use Ti Energy value Ti Al Entrance door th cc Exposure category – exposed te Exposure category – open te sc Exposure category – te suburban Exposure category – te suburban Exposure category – te protected Horizontal shading feature protected National Construction Code (NCC) Class 4	incheme) rating. Indows that are representative of a specific type of window product and whose properties have been derived by statistical methods. In the representative of a specific type of window product and whose properties have been derived by statistical methods. In the representative of how much cooling can be achieved by an air conditioner for a single kWh of electricity input this is your homes rating without solar or batteries. The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions). The network of the network of the new cost of the provisions of the new cost of the new cost of the provisions of the new cost o
EER Energy use Til Energy value Til Al Entrance door th co Exposure category – exposed te Exposure category – open te so Exposure category – te suburban Exposure category – te protected Horizontal shading feature protected National Construction Code (NCC) Class 4	inergy Efficiency Ratio, measure of how much cooling can be achieved by an air conditioner for a single kWh of electricity input this is your homes rating without solar or batteries. The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The net cost to society including to the environment and energy networks (as defined in the BCB Housing Provisions Standard). The network of the new costs to society including user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The network of the new costs to
Energy use Ti Energy value Ti Al Entrance door th co Exposure category – exposed te Exposure category – open te so Exposure category – te suburban Exposure category – te protected Horizontal shading feature protected National Construction Code (NCC) Class 4	his is your homes rating without solar or batteries. The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). These signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building. The provisions of the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building. The provisions of the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building. The provisions of the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building. The provisions of the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building. The provisions of the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building. The provisions of the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building. The provisions of the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building.
Energy value TI Al Entrance door th cc Exposure category – exposed te Exposure category – open te sc Exposure category – te suburban Exposure category – te protected Horizontal shading feature VI National Construction Code (NCC) Class Ti Al	The net cost to society including, but not limited to, costs to the building user, the environment and energy networks (as defined in the BCB Housing Provisions Standard). The sees signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building. The serrain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). The serrain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with cattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Entrance door the control of the con	BCB Housing Provisions Standard). nese signify ventilation benefits in the modelling software and must not be modelled as a door when opening to a minimally ventilate orridor in a Class 2 building. errain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). errain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with cattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – exposed te Exposure category – open te SC Exposure category – te suburban Exposure category – te protected Horizontal shading feature protected National Construction Code (NCC) Class	orridor in a Class 2 building. errain with no obstructions e.g. flat grazing land, ocean-frontage, desert, exposed high-rise unit (usually above 10 floors). errain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with cattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – open te sc Exposure category – te suburban Exposure category – te protected Horizontal shading feature protected National Construction Code (NCC) Class 4	errain with few obstructions at a similar height e.g. grasslands with few well scattered obstructions below 10m, farmland with cattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
Exposure category – te suburban Exposure category – te protected Horizontal shading feature protected National Construction Code (NCC) Class 4	cattered sheds, lightly vegetated bush blocks, elevated units (e.g. above 3 floors).
suburban Exposure category – te protected Horizontal shading feature production Code th (NCC) Class 4	projection with numerous, closely appead chatrustions below 10m a.g. suburban beyoing, beautily vegetated by bland gross
Exposure category – te protected Horizontal shading feature pr up National Construction Code th (NCC) Class 4	errain with numerous, closely spaced obstructions below forme.g. suburban housing, heavily vegetated businand areas.
protected Horizontal shading feature properties of the National Construction Code (NCC) Class 4	
Horizontal shading feature property of the National Construction Code (NCC) Class 4	errain with numerous, closely spaced obstructions over 10 m e.g. city and industrial areas.
National Construction Code (NCC) Class 4	
(NCC) Class 4	rovides shading to the building in the horizontal plane, e.g. eaves, verandahs, pergolas, carports, or overhangs or balconies from pper levels.
Net zero home a	ne NCC groups buildings by their function and use, and assigns a classification code. NatHERS software models NCC Class 1, 2 or buildings and attached Class 10a buildings. Definitions can be found at www.abcb.gov.au.
	home that achieves a net zero energy value*.
Opening percentage th	ne openability percentage or operable (moveable) area of doors or windows that is used in ventilation calculations.
pr	n assumed value that does not represent an actual value. For example, if the wall colour is unspecified in the documentation, a rovisional value of 'medium' must be modelled. Acceptable provisional values are outlined in the NatHERS Technical Note and can e found at www.nathers.gov.au
	nis is the capacity or size of equipment that is recommended by NatHERS to achieve the desired comfort conditions in the zone or ones serviced. This is a recommendation and the final selection sizing should be confirmed by a suitably qualified person.
	an be applied to walls, roofs and ceilings. When combined with an appropriate air gap and emissivity value, it provides insulative roperties.
	or 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, nd generally does not have a diffuser.
Shading features in	cludes neighbouring buildings, fences, and wing walls, but excludes eaves.
<u> </u>	ne fraction of incident solar radiation admitted through a window, both directly transmitted as well as absorbed and subsequently eleased 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 fo lights)	or NatHERS this is typically a moulded unit with flexible reflective tubing (light well) and a diffuser at ceiling level.

7 Star Rating as of 30 Apr 2025

NATIONWIDE HOUSE INSTRUMENT COME

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)