Nationwide House Energy Rating Scheme NatHERS Certificate No. RA7UY8RNLN-02

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Property

Address	0702-S, 1
Lot/DP	220397
NCC Class*	Class 2
Туре	New Hom

189 - 197 Kent Street, Sydney, NSW, 2000

Plans

Main plan Prepared by

Construction and environment

Assessed floor area (m²)* Conditioned* 132.8 Unconditioned* 0 Total 132.8 Garage

Exposure type open NatHERS climate zone 17 Sydney RO

Accredited assessor

Name **Business name** Email Phone Accreditation No. Assessor Accrediting Organisation

Declaration of interest

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Declaration completed: no conflicts

the more energy efficient NATIONWIDE **ENERGY RATING SCHEME**

26.7 MJ/m²

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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 Heating Cooling 22.7 4 MJ/m² MJ/m²

About the rating

NatHERS software models the expected thermal energy loads using information about the design and construction, climate and common patterns of household use. The software does not take into account appliances, apart from the airflow impacts from ceiling fans.

Verification

To verify this certificate, scan the QR code or visit https://www.fr5.com.au /QRCodeLanding?PublicId= RA7UY8RNLN-02 When using either link, ensure you are visiting www.FR5.com.au.



National Construction Code (NCC) requirements

The NCC's requirements for NatHERS-rated houses are detailed in 3.12.0(a)(i) and 3.12.5 of the NCC Volume Two. For apartments the requirements are detailed in J0.2 and J5 to J8 of the NCC Volume One.

In NCC 2019, these requirements include minimum star ratings and separate heating and cooling load limits that need to be met by buildings and apartments through the NatHERS assessment. Requirements additional to the NatHERS assessment that must also be satisfied include, but are not limited to: insulation installation methods, thermal breaks, building sealing, water heating and pumping, and artificial lighting requirements. The NCC and NatHERS Heating and Cooling Load Limits (Australian Building Codes Board Standard) are available at www.abcb.gov.au.

State and territory variations and additions to the NCC may also apply.

* Refer to glossary.



Certificate Check

Ensure the dwelling is designed and then built as per the NatHERS Certificate. While you need to check the accuracy of the whole Certificate, the following spot check covers some important items impacting the dwelling's rating.

Genuine certificate

Does this Certificate match the one available at the web address or QR code in the verification box on the front page? Does the set of NatHERS-stamped plans for the dwelling have a Certificate number on the stamp that matches this Certificate?

Ceiling penetrations*

Does the 'number' and 'type' of ceiling penetrations (e.g. downlights, exhaust fans, etc) shown on the stamped plans or installed, match what is shown in this Certificate?

Windows

Does the installed window meet the substitution tolerances (SHGC and U-value) and window type, of the window shown on this Certificate? Substituted values must be based on the Australian Fenestration Rating Council (AFRC) protocol.

Apartment entrance doors

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 level (terrain) been applied? For example, it is unlikely that a ground-floor apartment is "exposed" or a top floor high-rise apartment is "protected".

Provisional* values

Have provisional values been used in the assessment and, if so, noted in "additional notes" below?

Additional Notes

Window and glazed door type and performance

Default* windows

				Substitution tolerance ranges		
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
No Data Availat	ble					
Custom* window	/S					
				Substitution to	lerance ranges	
Window ID	Window description	Maximum U-value*	SHGC*	SHGC lower limit	SHGC upper limit	
	Signature Sliding Stacking Door DG					

BRD-141-01 A	638ComPlsGry-8Ar-4mm	3.15	0.37	0.35	0.39
CAP-041-49 A	Capral 425 Fixed Window DG 638CPGn/12Ar/6	2.7	0.37	0.35	0.39
BRD-022-44 A	Al Sliding Door DG 5Gy-10Ar-4EA	3.25	0.37	0.35	0.39
CPT-004-19 A	Titan Awning DG LightBridge_ClrSI_638-12-4	3.81	0.37	0.35	0.39

Window and glazed door Schedule

								Window
			Height	Width				shading
Location	Window ID	Window no.	(mm)	(mm)	Window type	Opening %	Orientation	device*

* Refer to glossary.

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7.4 Star Rating as of 20 Feb 2025

HOU	WIDE
HOU	JSE

Kitchen/Living 10	BRD-141-01 A	SLIDING BALCONEY	2700	3460	sliding	60.0	S	No
Kitchen/Living 10	CAP-041-49 A	EAST	2500	3800	fixed	0.0	E	No
Kitchen/Living 10	CAP-041-49 A	EAST	2500	3786	fixed	0.0	E	No
Bedroom 13	BRD-022-44 A	SLIDING BALCONEY	2700	2343	sliding	45.0	E	No
Bedroom 13	CAP-041-49 A	N/S	950	500	fixed	0.0	SE	No
Bedroom 13	CPT-004-19 A	N/S	1500	500	awning	34.0	SE	No
Bedroom 14	CAP-041-49 A	N/S	950	500	fixed	0.0	SW	No
Bedroom 14	CPT-004-19 A	N/S	1500	500	awning	34.0	SW	No
Bedroom 14	CAP-041-49 A	N/S	950	500	fixed	0.0	SW	No
Bedroom 14	CPT-004-19 A	N/S	1500	500	awning	34.0	SW	No
Bedroom 16	CAP-041-49 A	WEST	2000	2300	fixed	0.0	W	No
Bedroom 16	CPT-004-19 A	WEST	450	2300	awning	90.0	W	No
Bedroom 16	CAP-041-49 A	N/S	950	500	fixed	0.0	SW	No
Bedroom 16	CPT-004-19 A	N/S	1500	500	awning	34.0	SW	No

Roof window type and performance value

Default* roof windows Substitution tolerance ranges Maximum SHGC lower limit SHGC upper limit SHGC* Window ID Window description U-value* No Data Available Custom* roof windows Substitution tolerance ranges Maximum SHGC lower limit SHGC upper limit Window ID Window description U-value* SHGC* No Data Available Roof window schedule Area Outdoor Indoor Window ID Window no. Location **Opening %** (m²) Orientation shade shade No Data Available Skylight type and performance Skylight ID Skylight description No Data Available Skylight schedule Skylight Skylight shaft Area Orient-Outdoor Skylight shaft (m²) **Skylight ID** length (mm) Diffuser reflectance Location No. ation shade No Data Available External door schedule Location Height (mm) Width (mm) Opening % Orientation

* Refer to glossary.



No Data Available

External wall type

		Solar	Wall shade	•	Reflective
Wall ID	Wall type	absorptance	e (colour)	Bulk insulation (R-value)	wall wrap*
1	E-LAB - Cast Concrete	0.5	Medium		No
2	E-LAB - Ext Concrete Wall with R2.5 Added	0.5	Medium	Glass fibre batt: R2.5 (R2.5)	No
3	E-LAB - R2.5 Spandrel	0.5	Medium	Cellulose fibre: loose fill (k = 0.04) (R0.2)	No

External wall schedule

					Horizontal shading	Vertical
		Height			feature* maximum	shading feature
Location	ID	(mm)	. ,	Orientation	projection (mm)	(yes/no)
Kitchen/Living 10	1	2700	4413		0	No
Kitchen/Living 10	1	2700	1080		0	No
Kitchen/Living 10	2	2700	4372		3436	Yes
Kitchen/Living 10	3	2700	7901	E	553	No
Wc	1	2700	1838	Ν	0	No
Wc	1	2700	3072	W	0	No
back kitchen	1	2700	1474	Ν	0	No
Bedroom 13	2	2700	3312	E	0	Yes
Bedroom 13	2	2700	1072	S	0	Yes
Bedroom 13	2	2700	558	SSW	0	Yes
Bedroom 13	3	2700	546	SE	0	Yes
Bedroom 13	2	2700	2272	S	0	Yes
Bedroom 14	2	2700	765	SSE	0	Yes
Bedroom 14	3	2700	513	SW	0	Yes
Bedroom 14	2	2700	929	SE	0	Yes
Bedroom 14	3	2700	882	SW	0	Yes
Bedroom 14	2	2700	524	E	0	Yes
Bedroom 14	2	2700	1277	S	0	Yes
Ens	1	2700	1144	E	0	No
Ens	1	2700	3128	N	0	No
Ens	2	2700	3201	W	147	No
Bedroom 16	1	2700	853	N	0	No
Bedroom 16	3	2700	3064	W	372	No
Bedroom 16	2	2700	1126	SW	0	Yes
Bedroom 16	2	2700	2390	SSE	0	Yes
Bedroom 16	3	2700	560	SW	0	Yes
Bedroom 16	2	2700	695	SE	0	Yes
Corridor	1	2700	4559	N	0	No
Corridor	1	2700	1213		0	No

* Refer to glossary.



Internal wall type

Wall ID	Wall type	Area (m ²) Bulk insulation
1	FR5 - Internal Plasterboard Stud Wall	105

Floor type

		Area	Sub-floor	Added insulation	
Location	Construction	(m²)	ventilation	(R-value)	Covering
Kitchen/Living 10	FR5 - 200mm concrete slab	52.7	Enclosed	R0.0	Timber
Wc	FR5 - 200mm concrete slab	5.6	Enclosed	R0.0	Tiles
back kitchen	FR5 - 200mm concrete slab	3.6	Enclosed	R0.0	Timber
Bedroom 13	FR5 - 200mm concrete slab	14.5	Enclosed	R0.0	Carpet
Bedroom 14	FR5 - 200mm concrete slab	13.2	Enclosed	R0.0	Carpet
Ens	FR5 - 200mm concrete slab	10	Enclosed	R0.0	Tiles
Bedroom 16	FR5 - 200mm concrete slab	18.8	Enclosed	R0.0	Carpet
Ens	FR5 - 200mm concrete slab	5.1	Enclosed	R0.0	Tiles
Corridor	FR5 - 200mm concrete slab	9.2	Enclosed	R0.0	Timber

Ceiling type

		Bulk insulation R-value (may	Reflective
Location	Construction material/type	include edge batt values)	wrap*
No Data Available			

Ceiling penetrations*

Quantity	Туре	Diameter (mm)	Sealed/unsealed
24	Downlights	120	Sealed
1	Exhaust Fans	200	Sealed
2	Downlights	120	Sealed
1	Exhaust Fans	200	Sealed
1	Downlights	120	Sealed
1	Exhaust Fans	200	Sealed
6	Downlights	120	Sealed
6	Downlights	120	Sealed
5	Downlights	120	Sealed
1	Exhaust Fans	200	Sealed
9	Downlights	120	Sealed
2	Downlights	120	Sealed
1	Exhaust Fans	200	Sealed
5	Downlights	120	Sealed
	24 1 2 1 1 1 1 6 6 6 5 1 9 2 2 1	24Downlights1Exhaust Fans2Downlights1Exhaust Fans1Downlights1Exhaust Fans6Downlights6Downlights5Downlights1Exhaust Fans9Downlights2Downlights1Exhaust Fans1Exhaust Fans1Exhaust Fans1Exhaust Fans1Exhaust Fans1Exhaust Fans	24Downlights1201Exhaust Fans2002Downlights1201Exhaust Fans2001Downlights1201Exhaust Fans2001Exhaust Fans2006Downlights1206Downlights1205Downlights1201Exhaust Fans2009Downlights1201Exhaust Fans2001Exhaust Fans2001Exhaust Fans2002Downlights1201Exhaust Fans2002Downlights1201Exhaust Fans200

Ceiling fans

Location	Quantity	Diameter (mm)
No Data Available		

* Refer to glossary.



Roof type				
Construction	Added insulation (R-value)	Solar absorptance	Roof shade	
Slab:Slab - Suspended Slab : 200mm: 200mm Suspended Slab	0.0	0.5	Medium	



Explanatory Notes

About this report

A NatHERS rating is a comprehensive, dynamic computer modelling evaluation of a home, using the floorplans, elevations and specifications to estimate an energy load. It addresses the building layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings), but does not cover the water or energy use of appliances or energy production of solar panels.

Ratings are based on a unique climate zone where the home is located and are generated using standard assumptions, including occupancy patterns and thermostat settings. The actual energy consumption of a home may vary significantly from the predicted energy load, as the assumptions used in the rating will not match actual usage patterns. For example, the number of occupants and personal heating or cooling preferences will vary.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparing different dwelling designs and to demonstrate that the design meets the energy efficiency requirements in the National Construction Code. Homes that are energy efficient use less energy, are warmer on cool days, cooler on hot days and cost less to run. The higher the star rating the more thermally efficient the dwelling is.

Accredited assessors

To ensure the NatHERS Certificate is of a high quality, always use an accredited or licenced assessor. NatHERS accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

Australian Capital Territory (ACT) licensed assessors may only produce assessments for regulatory purposes using software for which they have a licence endorsement. Licence endorsements can be confirmed on the ACT licensing register

AAOs have specific quality assurance processes in place, and continuing professional development requirements, to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any ongoing training requirements.

Any questions or concerns about this report should be directed to the assessor in the first instance. If the assessor is unable to address these questions or concerns, the AAO specified on the front of this certificate should be contacted.

Disclaimer

The format of the NatHERS Certificate was developed by the NatHERSAdministrator. However the content of each individual certificate is entered and created by the assessor to create a NatHERS Certificate. It is the responsibility of the assessor who prepared this certificate to use NatHERS accredited software correctly and follow the NatHERS Technical Notes to produce a NatHERS Certificate.

The predicted annual energy load in this NatHERS Certificate is an estimate based on an assessment of the building by the assessor. It is not a prediction of actual energy use, but may be used to compare how other buildings 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, indoor air temperature and local climate.

Not all assumptions that may have been made by the assessor while using the NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor.

Glossary

Annual energy load	the predicted amount of energy required for heating and cooling, based on standard occupancy assumptions.
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, rangehoods, 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.
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.
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 - exposed	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 - suburban	terrain with numerous, closely spaced obstructions below 10m e.g. suburban housing, heavily vegetated bushland areas.
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.

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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.
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
Reflective wrap (also known as foil)	can be applied to walls, roofs and ceilings. When combined with an appropriate airgap 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 device	a device fixed to windows that provides shading e.g. window awnings or screens but excludes eaves.
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.
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).