

Nationwide House Energy Rating Scheme®

Class 2 Summary

NatHERS® Certificate No. GTA0BUZJBC

Generated on 1 Aug 2025 using FirstRate5 v5.5.5a

Property

Address 221-291 Crown St, 216-238 Keira St and 86-90 Burelli St Certificate 3, Wollongong, NSW, 2500

Lot/DP

NatHERS Climate Zone Mascot (Sydney Airport)



Accredited assessor

Name Patrick Phelan
Business name Energy Water and Environment
Email patrick@ewenvironment.com.au
Phone 0402586813
Accreditation No. DMN/12/1407
Assessor Accrediting Organisation Design Matters National

Verification

To verify this certificate, scan the QR code or visit <https://www.fr5.com.au/QRCodeLanding?PublicId=GTA0BUZJBC&GrpCert=1>
When using either link, ensure you are visiting www.fr5.com.au.



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.

Summary of all dwellings

Certificate number and link	Unit number	Heating load (load limit) [MJ/m²/p.a.]	Cooling load (load limit) [MJ/m²/p.a.]	Total load [MJ/m²/p.a.]	Star rating	Whole of Home Rating
ICDM48SVAS	A18.06	7.8 (N/A)	17.4 (N/A)	25.2	7.4	NA
8BSU7RYSIF	A20.06	7.7 (N/A)	16.9 (N/A)	24.6	7.6	NA

Thermal performance Star rating



NCC heating and cooling maximum loads MJ/m²/p.a.

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled block average	17.3	13.6
Maximum allowable limit	N/A	N/A

Whole of Home performance rating

No Whole of Home performance rating conducted for this summary certificate or not completed for all dwellings

The rating above is the lowest of all dwellings in this summary



Summary of all dwellings

Certificate number and link	Unit number	Heating load (load limit) [MJ/m ² /p.a.]	Cooling load (load limit) [MJ/m ² /p.a.]	Total load [MJ/m ² /p.a.]	Star rating	Whole of Home Rating
ZJT5KGR7PF	A27.03	26.9 (N/A)	10.4 (N/A)	37.3	6.1	NA
QIGL8VJ57G	A28.03	26.8 (N/A)	10.6 (N/A)	37.4	6.1	NA
2AX1RQL6HU	A29.03	26.8 (N/A)	10.7 (N/A)	37.5	6.1	NA
9QPIT9TICY	A36.01	8.5 (N/A)	10.8 (N/A)	19.3	8.2	NA
RUG4BZ4GVL	A36.02	20.6 (N/A)	11.3 (N/A)	31.9	6.8	NA
H3VBMVYV1N3	A37.01	16.9 (N/A)	12.9 (N/A)	29.8	7	NA
4V04G93829	A37.03	18.8 (N/A)	19.1 (N/A)	37.9	6	NA
32BVH0K4R9	E16.01	24.3 (N/A)	13.7 (N/A)	38.0	6	NA
EQC7VKFUP2	E16.03	20.8 (N/A)	13.1 (N/A)	33.9	6.5	NA
NTEX5YZYWG	E16.07	16.0 (N/A)	13.6 (N/A)	29.6	7	NA
CA3JZH42Z2	E2.02	8.7 (N/A)	19.2 (N/A)	27.9	7.2	NA
VEK5NG5N54	E2.03	20.6 (N/A)	8.1 (N/A)	28.7	7.1	NA
N15I363LYC	E3.02	17.5 (N/A)	8.5 (N/A)	26.0	7.4	NA
66OWIG9MME	E3.04	7.3 (N/A)	21.4 (N/A)	28.7	7.1	NA



Explanatory notes

About this report

The thermal performance star rating in this Certificate is the average rating of all NCC Class 2 dwellings in an apartment block. The Whole of Home performance rating in this Certificate is the lowest rating for the apartment block. Individual unit ratings are listed in the 'Summary of all dwellings' section of this Certificate. (accessible via link).

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 energy loads and energy value*. 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 production and storage to estimate the home's energy value*.

For more details about an individual dwelling's assessment, refer to the individual dwelling's NatHERS Certificate (accessible via link)

Accredited Assessors

For high quality 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.

Licensed assessors in the Australian Capital Territory (ACT) can produce assessments for regulatory purposes only, using endorsed software, as listed on the ACT licensing register

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

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The predicted annual energy use, 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 while using the NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor

Nationwide House Energy Rating Scheme®
Class 2 Summary

Thermal performance
Star rating

NatHERS® Certificate No. 98CR3P5UTH

Generated on 1 Aug 2025 using FirstRate5 v5.5.5a

Property

Address 221-291 Crown St, 216-238 Keira St and 86-90
Burelli St Certificate 2,
Wollongong, NSW, 2500

Lot/DP

NatHERS Climate Zone Mascot (Sydney Airport)



Accredited assessor

Name Patrick Phelan
Business name Energy Water and Environment
Email patrick@ewenvironment.com.au
Phone 0402586813
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When using either link, ensure you
are visiting www.fr5.com.au.



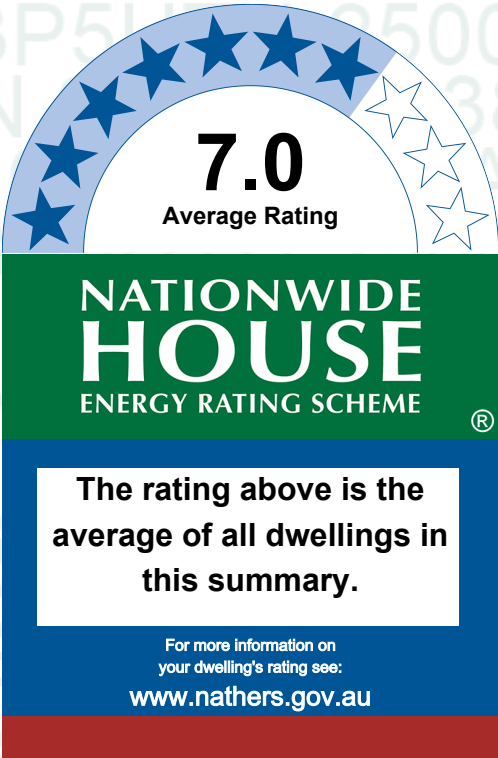
National Construction Code (NCC) requirements

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.



NCC heating and cooling
maximum loads MJ/m²/p.a.

Limits taken from ABCB Standard 2022

	Heating	Cooling
Modelled	21.3	8
block average		
Maximum	N/A	N/A
allowable limit		

Whole of Home
performance rating

No Whole of Home
performance rating
conducted for this
summary certificate
or
not completed for all
dwellings

The rating above is the lowest of
all dwellings in this summary

Summary of all dwellings

Certificate number and link	Unit number	Heating load (load limit) [MJ/m²/p.a.]	Cooling load (load limit) [MJ/m²/p.a.]	Total load [MJ/m²/p.a.]	Star rating	Whole of Home Rating
6D73Z25J6T	B11.01	25.1 (N/A)	11.5 (N/A)	36.6	6.2	NA
8RKUQGQQ24	B17.01	26.4 (N/A)	11.3 (N/A)	37.7	6	NA



Summary of all dwellings

Certificate number and link	Unit number	Heating load (load limit) [MJ/m ² /p.a.]	Cooling load (load limit) [MJ/m ² /p.a.]	Total load [MJ/m ² /p.a.]	Star rating	Whole of Home Rating
ZXQ1LSML6K	B4.03	31.1 (N/A)	6.9 (N/A)	38.0	6	NA
V3QQ35C5Q7	B6.03	30.3 (N/A)	7.4 (N/A)	37.7	6	NA
PVDWVJC2XB	C18.01	26.6 (N/A)	5.8 (N/A)	32.4	6.7	NA
5TZ7F1NTZ5	C23.03	13.6 (N/A)	10.9 (N/A)	24.5	7.6	NA
Q2NIGJHY2B	C24.03	23.1 (N/A)	12.6 (N/A)	35.7	6.3	NA
MWBEGY6LT8	C3.04	9.2 (N/A)	5.0 (N/A)	14.2	8.7	NA
OHD05VZXCT	C4.02	19.0 (N/A)	7.0 (N/A)	26.0	7.4	NA
XDPMMET59X	C8.02	20.2 (N/A)	6.7 (N/A)	26.9	7.3	NA
EBM6T2DQFV	D1.03	19.8 (N/A)	9.6 (N/A)	29.4	7.1	NA
1AFEGWI4QL	D11.01	26.9 (N/A)	6.9 (N/A)	33.8	6.5	NA
BNAV64G2ON	D14.03	6.0 (N/A)	5.8 (N/A)	11.8	9	NA
X6ODMU2MUC	D15.03	5.2 (N/A)	6.3 (N/A)	11.5	9.1	NA
5ZRHKE5I06	D17.01	29.8 (N/A)	8.1 (N/A)	37.9	6	NA
T6ABXENRHV	D3.01	29.2 (N/A)	6.8 (N/A)	36.0	6.3	NA



Explanatory notes

About this report

The thermal performance star rating in this Certificate is the average rating of all NCC Class 2 dwellings in an apartment block. The Whole of Home performance rating in this Certificate is the lowest rating for the apartment block. Individual unit ratings are listed in the 'Summary of all dwellings' section of this Certificate. (accessible via link).

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 energy loads and energy value*. 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 production and storage to estimate the home's energy value*.

For more details about an individual dwelling's assessment, refer to the individual dwelling's NatHERS Certificate (accessible via link)

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The predicted annual energy use, 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 while using the NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor

Nationwide House Energy Rating Scheme — Class 2 summary

NatHERS Certificate No. 43Z4SID0XI

Generated on 3 Jul 2025 using FirstRate5 v5.3.2b

Property

Address 221-291 Crown St, 216-238 Keira St and
86-90 Burelli St, Wollongong, NSW, 2500

Lot/DP

NatHERS climate zone

Accredited assessor



Patrick Phelan
Energy Water and Environment
patrick@ewenvironment.com.au
0402586813

Accreditation No. DMN/12/1407

Assessor Accrediting Organisation Design Matters
National

7.1

Average Rating

NATIONWIDE

HOUSE

ENERGY RATING SCHEME

The rating above is the average of all dwellings in this summary.

For more information on your dwelling's rating see:

www.nathers.gov.au



Verification

To verify this certificate, scan the QR code or visit <https://www.fr5.com.au/QRCodeLanding?PublicId=43Z4SID0XI&GrpCert=1> When using either link, ensure you are visiting www.fr5.com.au.

Summary of all dwellings

Certificate number and link	Unit number	Heating load (MJ/m ² /p.a.)	Cooling load (MJ/m ² /p.a.)	Total load (MJ/m ² /p.a.)	Star rating
WK3L4Z3P1W		34.9	11.7	46.6	6.4
VW5FX5UZKC	A37.02	41.4	15.1	56.5	5.6
LFRPUNI0FK	A37.05	15.9	15.9	31.8	7.5
ABRUU9VKBL	B.1704	41.6	11.4	53.0	5.9
WMR0JG6AMN	B3.02	14.7	14.3	29.0	7.7
UOQUP3QKSV	B3.03	44.9	11.3	56.2	5.6
2QHWHG8KWP	C15.04	13.1	11.0	24.1	8.2

Continued over

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.

Summary of and links to all dwellings (continued)

Certificate number and link	Unit number	Heating load (MJ/m ² /p.a.)	Cooling load (MJ/m ² /p.a.)	Total load (MJ/m ² /p.a.)	Star rating
2ECGAIFF5Q	C2.02	37.6	10.5	48.1	6.2
9TM7RKGEDP	C2.03	21.7	20.0	41.7	6.8
NI9W5NUKNB	C24.02	23.2	16.0	39.2	6.9
DWG1TU46GJ	C3.02	26.8	19.2	46.0	6.4
VV8BUPMJUG	C3.03	10.5	8.5	19.0	8.6
YKOBWQZUCK	C4.01	17.6	10.0	27.6	7.9
77U702HEFD	CG.01	9.9	14.1	24.0	8.2
5K45QFNM4O	D1.02	14.9	9.0	23.9	8.2
83FTUDNDF0	D17.02	16.1	11.3	27.4	7.9
AIQ8U6KPEK	D17.04	36.9	20.0	56.9	5.6
RBWE2QL2GI	D3.02	22.4	6.7	29.1	7.7
5OHAM55K5P	D3.04	23.1	8.4	31.5	7.5
QP87HRD4TV	DG.01	24.2	16.4	40.6	6.9
JDRPQY5CTZ	E1.01	17.7	22.3	40.0	6.9
9TUTQ61BR5	E16.02	44.0	15.2	59.2	5.4
VPFV8T4IMD	E2.01	1.7	18.8	20.5	8.4
Average		24.1	13.8	37.9	7.1

Explanatory notes

About this report

This summary rating is the average rating of all NCC Class 2 dwellings in a development. The individual dwellings' ratings are a comprehensive, dynamic computer modelling evaluation of a home, using the floorplans, elevations and specifications to estimate the 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. For more details about an individual dwelling's assessment, refer to the individual dwelling's NatHERS Certificate (accessible via link).

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). 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.

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.

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