

# Nationwide House Energy Rating Scheme® Class 2 Summary

**NatHERS® Certificate No. #HR-PHQ4SV-02**

Generated on 19 Feb 2025 using Hero 4.1

## Property

**Address** 10-16 Birdwood Avenue, Cabramatta, NSW, 2166  
**Lot/DP** 64//DP32233  
**NatHERS climate zone** 28 - Richmond



## Accredited assessor

**Name** Robert Romanous  
**Business name** Cadence Efficiency Pty Ltd  
**Email** robert@cadenceefficiency.com.au  
**Phone** +61 436359396  
**Accreditation No.** 101535  
**Assessor Accrediting Organisation** ABSA

## Verification

To verify this certificate, scan the QR code or visit <http://www.hero-software.com.au/pdf/HR-PHQ4SV-02>.  
When using either link, ensure you are visiting <http://www.hero-software.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.

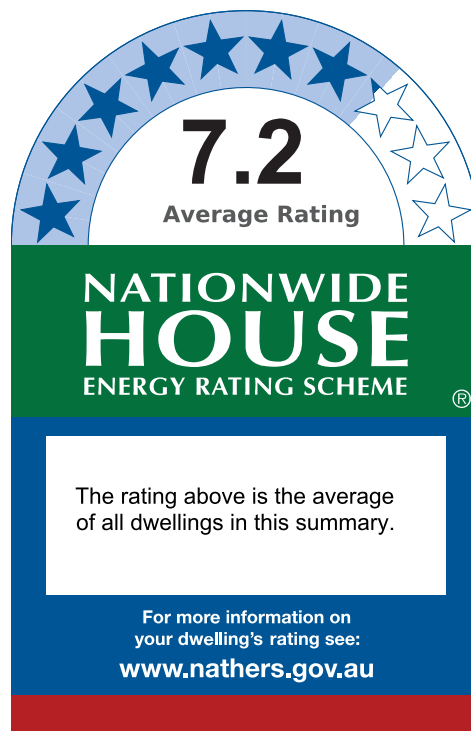
The NCC, and associated ABCB Standards and support material, can be accessed at [www.abcb.gov.au](http://www.abcb.gov.au).

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.yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Rating
<a href="#">HR-Z110H5-02</a>	Unit 1	17.7 (70)	11.5 (54)	29.1	8.7	n/a
<a href="#">HR-YUBZ3A-02</a>	Unit 10	50.9 (70)	25.7 (54)	76.6	6.1	n/a
<a href="#">HR-TM9UDR-02</a>	Unit 11	24.4 (70)	33.5 (54)	57.9	7.1	n/a

## Thermal performance Star rating



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](http://www.nathers.gov.au)

## NCC heating and cooling maximum loads MJ/m².yr

Limits taken from ABCB Standard 2022

	Heating	Cooling
<b>Average load</b>	36.6	19.2
<b>Maximum load</b>	62.4	41.5
<b>Average limit</b>	63.6	49.3
<b>Maximum limit</b>	69.7	54.2

## Whole of Home performance rating

No Whole of Home performance rating generated for this certificate or not completed for all dwellings.

## Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m <sup>2</sup> .yr)	Cooling load (load limit) (MJ/m <sup>2</sup> .yr)	Total load (MJ/m <sup>2</sup> .yr)	Star Rating	Whole of Home Rating
<a href="#">HR-IQRKG4-02</a>	Unit 12	30.1 (70)	21.1 (54)	51.2	7.4	n/a
<a href="#">HR-RSPH9A-02</a>	Unit 13	26.7 (70)	22.7 (54)	49.3	7.6	n/a
<a href="#">HR-K9EB4T-02</a>	Unit 14	26.0 (70)	24.7 (54)	50.7	7.5	n/a
<a href="#">HR-GVWXMZ-02</a>	Unit 15	28.7 (70)	18.7 (54)	47.4	7.7	n/a
<a href="#">HR-NBYNIS-02</a>	Unit 16	32.7 (70)	41.5 (54)	74.2	6.3	n/a
<a href="#">HR-G601BA-02</a>	Unit 17	35.3 (70)	29.8 (54)	65.1	6.7	n/a
<a href="#">HR-VFU65E-02</a>	Unit 18	48.6 (70)	26.0 (54)	74.5	6.2	n/a
<a href="#">HR-GWMGNG-02</a>	Unit 2	40.5 (70)	5.9 (54)	46.4	7.7	n/a
<a href="#">HR-XL8ALC-02</a>	Unit 3	34.7 (70)	6.1 (54)	40.8	8.0	n/a
<a href="#">HR-VS9O4S-02</a>	Unit 4	34.9 (70)	7.3 (54)	42.2	7.9	n/a
<a href="#">HR-625YE9-02</a>	Unit 5	38.3 (70)	5.1 (54)	43.4	7.9	n/a
<a href="#">HR-JHFO2I-02</a>	Unit 6	29.5 (70)	15.2 (54)	44.7	7.8	n/a
<a href="#">HR-N3UAAB-02</a>	Unit 7	50.0 (70)	12.2 (54)	62.1	6.9	n/a
<a href="#">HR-TAROXY-02</a>	Unit 8	62.4 (70)	7.6 (54)	70.0	6.5	n/a
<a href="#">HR-M12N7T-02</a>	Unit 9	47.1 (70)	30.4 (54)	77.5	6.1	n/a
Averages	18x (Total)	36.6	19.2	55.7	7.2	n/a
Maximum Loads and Minimum Ratings		62.4	41.5	77.5	6.1	n/a

## Explanatory notes

### About the ratings

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.

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 societal cost. 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 societal cost.

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

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in certificates 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 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.

#### Assessor Details

Name: Robert Romanous  
Direct Number: (02) 8484 4086  
Office: 1300 787 302  
AAO: ABSA  
Assessor Number: 101535

#### Assessment Details

Project #: 118400  
Project Name: 10-16 Birdwood Avenue, Cabramatta West  
Software: HERO v4.1  
Date: 04/14/2024  
NatHERS Certificate Number: HR-PHQ4SV-02  
BASIX Certificate Number: 1784012M\_03

#### Client Details

Company Name: McGregor Westlake Architecture  
Contact Number: 02) 9211 8151  
Contact Email: [damien@mwarchitects.com.au](mailto:damien@mwarchitects.com.au)

#### NCC 2022 Compliance (Class 2) - Version 4 BASIX

In addition to the BASIX Commitments, building compliance is required to comply with the New South Wales state variations within the NCC 2022 - Volume 1. Specific mention is made of the following provisions:

- **J2** – Energy Efficiency,
- **J4** – Building Fabric,
- **J5** – Building Sealing,
- **J6** – Air-Conditioning and Ventilation,
- **J8** – Heated Water Supply, and
- **J9** – Energy Monitoring and On-site Distributed Energy Resources

Performance Requirement **NSW J1P5** is satisfied by complying with—

- **J3D5** and **J3D6**, for thermal breaks; and
- **J4D3**, for general thermal construction; and
- **J3D10(3)**, **J3D10(5)** and **J3D10(6)**, for floor edge insulation.
- Performance Requirement **NSW J1P6** is satisfied by complying with **Part J5** for building sealing.

Performance Requirement **NSW J1P7** is satisfied by complying with—

- **Part J6**, for air-conditioning and ventilation; and
- **J8D2**, for heated water supply; and
- **J9D3**, for facilities for energy monitoring.

Performance Requirement **NSW J1P4** is satisfied by complying with **J9D4** and **J9D5**.

Water (Score: 40% / Target: 40%) - Pass		Comments
Rainwater Tank	5kL rainwater tank connected to all toilets	
Common Landscape	Lawn: 958m <sup>2</sup> Garden: Nil	
Private Landscape	Nil	
Fire Sprinkler Systems	Nil	
Bathroom Taps	5 Star	
Kitchen Taps	5 Star	
Showerheads	4 Star (6.0-7,5L/min)	
Toilet Flusher	4 Star	
Dishwasher	Nil	
Clothes washer	Nil	
End of Water		

Energy (Score: 64% / Target: 62%) - Pass		Comments
Hot Water	Individual Electric instantaneous w/ R0.6 around all piping	
Dwelling Ventilation	Bathroom fan - Externally ducted w/ Interlock to light Kitchen fan - Externally ducted w/ manual switch Laundry fan - Externally ducted w/ Interlock to light or GPO	
AC Cooling and Heating	System Type – 1 Phase AC Efficiency – EER/COP above 3.0	
Lighting	Dedicated LED throughout all units	
Appliances	- Electric oven - Electric cooktop - Outdoor clothesline	
Solar PV	Minimum peak 15kW	
Lift	Gearless Traction w/ VVVF Motor – LED Lighting w/ link to call button	
End of Energy		

Thermal Comfort – 7.2 Stars (Average)	
Glazing	
<b>Sliding / Fixed</b> Max U-value 4.58 SHGC 0.45 (± 5%) Single Glazed low-e Alu Frame - Clear	<b>Awning</b> Max U-value 4.92 SHGC 0.41 (± 5%) Single Glazed low-e Alu Frame – Clear
<b>Sliding / Fixed (Dwelling 9 &amp; 17 only)</b> Max U-value 4.10 SHGC 0.52 (± 5%) Single Glazed low-e Alu Frame - Clear	<b>Awning (Dwelling 9 &amp; 17 only)</b> Max U-value 4.48 SHGC 0.36 (± 5%) Single Glazed low-e Alu Frame – Clear
External Walls	
External Walls of Units	Additional R2.00 insulation
External Walls of Units (Dwelling 9 & 17 only)	Additional R2.50 insulation
Internal Walls	
Intertenancy Walls Between Units	Hebel – no additional insulation
Internal Walls Inside Units	No additional insulation modelled
Unit Floors	
Floors To Internal Areas	Concrete – No additional insulation
Floors to Ground	Concrete – No additional insulation
Floors To External	Concrete – Additional R2.3 insulation
Unit Roof	
Roof To Any Unconditioned / Outside Air	Metal Roof – Additional R3.50 ceiling insulation + R1.30 reflective roof insulation
End of Thermal	