



efficient
LIVING

NatHERS and BASIX Assessment



Frasers Property Australia Proposed Residential Development

Midtown Precinct - Stage 2 Building C4

To be built at **Epping Road, Macquarie Park NSW 2113**

Issue	File Ref	Description	Author	Date
A	21-1703	NatHERS and BASIX Assessment	HE/FM//DO/SF	30/06/21
-	-	NOT A VAILD CERTIFICATE: Default 6 star NatHERS average results	HE	14/07/21
-	-	NOT A VAILD CERTIFICATE: Reduction in energy inclusions	HE	16/07/21
B	22-3192	Update to reflect plan changes	AA/SF/PV/MP/HE	27/05/2022
C	22-4060R	Update to reflect plan changes	SF	12/09/2023
D	2502159	NatHERS and BASIX Assessment - s4.55 update	LP/MF/SC/SF	21/11/2025

This report has been prepared by Efficient Living Pty Ltd on behalf of our client Frasers Property Australia. Efficient Living prepares all reports in accordance with the BASIX Thermal Comfort Protocol and is backed by professional indemnity insurance. This report takes into account our Client's instructions and preferred building inclusions.



Sustainable Building Consultants

p. 02 9970 6181 e. admin@efficientliving.com.au
www.efficientliving.com.au



Report Contact: Mariana Foganhole
Email: mariana@efficientliving.com.au

License Holder: Tracey Cools
Accreditation Number: HERA10033

Prepared For:

Frasers Property Australia
Robert Cauchi
Robert.Cauchi@frasersproperty.com.au

Level 2, 1C Homebush Bay Drive
Rhodes NSW 2138
9767 2186

Introduction

Efficient Living has investigated the estimated thermal comfort, water and energy usage of the proposed development to be built at Midtown Precinct – Lot C4.

Heating and cooling loads for the development have been determined using HERO v4.1 and BERS Pro Plus 4.4 thermal comfort simulation software. The report is based on the architectural drawings provided by Integral Group. For further details refer to the individual BASIX Certificate(s) and Efficient Living's inclusions summary respectively.

This report is based on the following plans prepared by Cox Architecture: Project 220148.00 received 11/11/2025.

Analysis

The BASIX Assessment is divided into three sections; Water, Thermal Comfort and Energy, each independently measuring the efficiency of the development.

BASIX requires a minimum target of 40% for the water section, a pass or fail for the thermal comfort section, and a minimum required target of 25% for the energy section.

Water

The proposed Development has achieved the BASIX Water Target of 40%.

The water usage of the development is calculated based on the number and efficiency of permanent fixtures and appliances such as taps, showerheads and toilet, the dish washer and clothes washing machine.

The size of the rainwater tank and number of connections may have a significant impact on your water score as does the area of gardens and lawns whether or not low water plant species are incorporated.

Thermal Comfort

Thermal Comfort targets are set by the Department of Planning in the form of heating and cooling caps. The buildings thermal physics are measured using HERO v4.1 and BERS Pro Plus V4.4 Thermal Comfort Simulation Software. This calculates the expected level of energy required to heat and cool each dwelling per annum, expressed in megajoules per square metre of floor area (MJ/m²).

Each unit has individual heating and cooling caps applied. Accompanying these individual caps are average heating and cooling caps applied to the whole development. The average caps are lower, or harder to comply with than the individual unit caps.

Energy

The proposed development has achieved the Energy target of 25% to pass this section.

The energy usage of the development is calculated based on the efficiency of fixed appliances that will be used. This includes the air-conditioning system, hot water system, lighting, exhaust fans, cook top, oven, and clothes drying facilities.

Inclusions Summary

The inclusions as outlined below have been incorporated in each unit to allow them to reach their environmental sustainability targets.

Thermal Comfort Inclusions

Glazing Doors/Windows

Glazed windows and doors:

Base file	Aluminium framed single low-e: A – awning windows: U-Value: 5.7 (equal to or lower than) SHGC: 0.45 (±10%) A – hinged doors: U-Value: 5.7 (equal to or lower than) SHGC: 0.44 (±10%) B – fixed windows: U-Value: 5.0 (equal to or lower than) SHGC: 0.49 (±10%) B – sliding doors: U-Value: 4.6 (equal to or lower than) SHGC: 0.52 (±10%)
Upgrade 1	Aluminium framed single low-e: A – awning windows: U-Value: 4.9 (equal to or lower than) SHGC: 0.54 (±10%) A – hinged doors: U-Value: 4.9 (equal to or lower than) SHGC: 0.54 (±10%) B – fixed windows: U-Value: 4.3 (equal to or lower than) SHGC: 0.57 (±10%)
Upgrade 2	Aluminium framed double low-e: B – sliding doors: U-Value: 3.7 (equal to or lower than) SHGC: 0.58 (±10%)
Upgrade 3	Aluminium framed single low-e: A – awning windows: U-Value: 3.64 (equal to or lower than) SHGC: 0.40 (±10%)



	B - fixed windows: U-Value: 3.07 (equal to or lower than) SHGC: 0.40 (±10%)
--	---

Given values are AFRC total window system values (glass and frame)

Roof Windows / skylights Townhouses

Skylights are fixed

U-value: 4.22 and SHGC: 0.72

Given values are AFRC total window system values (glass and frame)

Roof and ceiling

Concrete roof, waterproof membrane, no insulation where roof above

Concrete roof, waterproof membrane, R0.5 insulation where balcony above

Plasterboard ceiling with R2.0 insulation (insulation only value) where balconies are above

Plasterboard ceiling with R3.0 insulation (insulation only value) to soffit of concrete where roof is over

Plasterboard ceiling, no insulation where neighbouring units are above

External Colour

Light ($SA < 0.475$)

Ceiling Penetrations

Sealed LED downlights at a maximum of one every 2.5m².

Loss of ceiling insulation has been accounted for in accordance with BASIX Thermal Protocol 4.13.1. and NatHERS Technical Note 1.2.

Once lighting plan has been developed NatHERS certificate can be updated to improve specification.

External Wall

Brick veneer with R2.5 insulation (insulation only value)

FC cladding on metal studs and plasterboard lined with R2.5 insulation (insulation only value)

Minimum 110mm structural concrete with metal studs and plasterboard lined with R1.4 insulation (insulation only value)

External Colour

Medium colour modelled ($0.475 < SA < 0.7$)

Inter-tenancy walls

75mm Hebel Power Panel to walls adjacent to neighbours, no insulation required for thermal comfort

75mm Hebel Power Panel to walls adjacent to hallways, no insulation required for thermal comfort

Minimum 150mm concrete with furring channel and plasterboard lining and R1.4 to all walls adjacent to lift shafts and fire stairs.

Walls within dwellings

Plasterboard on studs - no insulation



Floors

Concrete with a minimum R2.0 insulation (insulation only value) required to units with basement below
Concrete with a minimum R2.0 insulation (insulation only value) required where part open subfloor is below
Concrete between levels, no insulation required

Floor coverings

Default floor coverings

External Shading

Shading as per stamped documentation

Ceiling fans

Ceiling fans modelled as per upgrades table
Social units - 1200mm ceiling fan to living rooms and all bedrooms

BASIX water inclusions

Score 40/40

Fixtures within units

Showerheads: 4 star mid flow (>6L but ≤7.5L/min)
Toilets: 4 star
Kitchen taps: 6 star
Bathroom vanity taps: 6 star

Appliances within units

Dishwashers: 3.5 stars to Market Apartments and Townhouses
Dishwashers: not specified to Social Apartments

Alternative water supply

Rainwater tank 20,000L
Collecting from 800m²
Connected to irrigation of 1,800m² landscaping

Fire sprinkler test water

Three sprinkler systems nominated in BASIX: one for parking areas, one for each apartment tower
All systems: Fire sprinkler test water must be contained in a closed loop system



Landscaping

No BASIX requirement for indigenous / low water use species

BASIX Energy Inclusions

Score 27/25

Hot water system

Central electric heat pump air sourced with R1.0 (~38mm) insulation to ring main and supply risers

Lift motors

All lifts to have gearless traction with VVVF motor and regenerative drive

Appliances and other efficiency measures within units

Market Apartments and Townhouses:

Induction cooktop & electric oven

Dishwashers: 3.5 star

Clothes dryers: 2.0 star

Social Apartments:

Electric cooktop & electric oven

Indoor clothes drying line

Heating and cooling within units

Market

All units to have individual, single phase, reverse cycle air conditioning to living areas, and at least 1 bedroom

A minimum efficiency of EER 2.5 – 3.0 is required for cooling; and

A minimum efficiency of EER 3.0 – 3.5 is required for heating

Social

All units to have individual, single phase, reverse cycle air conditioning to living areas only

A minimum efficiency of EER 2.5 – 3.0 is required for cooling; and

A minimum efficiency of EER 3.0 – 3.5 is required for heating

Artificial lighting within units

All light fittings within each room are to have sealed LED fixtures installed



Ventilation within units

Bathroom: individual fan, ducted to roof or façade – interlocked to light

Laundry: individual fan, ducted to roof or façade – manual on/off switch

Kitchen range hood: Individual fan, ducted to roof or façade – manual on/off switch

Ventilation to common areas

Car park area - supply and exhaust air with a carbon monoxide monitor & VSD fan

Waste rooms – ventilation exhaust only, continuous

Community Housing Provider Office – ventilation supply only, time clock or BMS controlled

Plant / service rooms – Ventilation supply and exhaust air, thermostatically controlled

Bicycle storage – ventilation supply only, time clock or BMS controlled

Basement lift lobbies – ventilation supply, time clock or BMS controlled

Ground floor lobbies, hallways and mail – No mechanical ventilation

Hallways - Level 1 and above – No mechanical ventilation

Artificial lighting to common areas

Lighting control / BMS system: Yes

Car park area – Light emitting diodes (LEDs) with zoned switching and motion sensors

Lifts – Light emitting diodes (LEDs) connected to lift call button

Waste rooms – Light emitting diodes (LEDs) with motion sensor

Community Housing Provider Office - Light emitting diodes (LEDs) with manual on / manual off switch

Plant / service rooms – Light emitting diodes (LEDs) with manual on / manual off switch

Bicycle storage – Light emitting diodes (LEDs) with manual on / manual off switch

Basement lift lobbies – Light emitting diodes (LEDs) running continuously

Ground floor lobbies, hallways and mail – Light emitting diodes (LEDs) running continuously

Hallways - Level 1 and above – Light emitting diodes (LEDs) with time clock and motion sensors

Alternative Energy

110kW photovoltaic system

Other

Building Management System will be installed

Power Factor Correction will be installed

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
Building C4.1 - Market							
MGF01	1	38.6	0	43.4	21.2	5.1	1200mm ceiling fan to living room
MGF02	1	40.5	0	20.5	22.8	6.6	
MGF03	1	37	0	28.8	20.3	6.2	1200mm ceiling fan to living room
MGF04	1	50.3	0	43	15.6	5.4	1200 mm ceiling fans to living and bedrooms Glazing Upgrade 3 to awning and fixed
MGF05	1	57.3	0	38.3	12.8	5.9	
M101	1	49.8	0	27.4	25.9	5.8	
M102	1	40.5	0	9.4	24.5	7.4	1200mm ceiling fan to living room
M103	1	37	0	14.7	20.5	7.3	1200mm ceiling fan to living room
M104	1	50.3	0	37.6	27.1	5.1	
M105	1	59.9	0	29.4	20.5	6.1	
M106	2	74	0	7.8	18.2	7.9	
M201	2	79.3	0	11.6	25.4	7.1	1200 mm ceiling fans to living and bedrooms Glazing Upgrade 3 to awning and fixed
M202	1	40.5	0	10.6	22.9	7.4	1200mm ceiling fan to living room
M203	1	37	0	15.3	19.8	7.3	1200mm ceiling fan to living room
M204	1	50.3	0	38.4	26.9	5	
M205	2	77.3	0	29.7	17.5	6.3	
M206	2	75	0	2.6	20.9	8.2	
M301	2	79.3	0	15.5	28.3	6.6	1200 mm ceiling fans to living and bedrooms
M302	1	40.5	0	4	24.5	7.8	1200mm ceiling fan Glazing Upgrade 3 to awning
M303	1	37	0	10.6	25.8	7.2	1200mm ceiling fan to living room
M304	1	50.3	0	33.4	25.4	5.4	
M305	2	77.3	0	36.2	14.8	6	
M306	2	75	0	3.7	19.8	8.2	
M401	3	93.4	0	11.8	26.2	7.1	1200 mm ceiling fans to living and bedrooms
M402	2	79.4	0	21.2	19	6.9	
M403	1	50.4	0	28.6	19.4	6.3	
M404	1	49.8	0	34.7	18.4	5.9	
M405	2	78.6	0	7.9	15.4	8.2	
M501	3	93.4	0	12.1	25.9	7.1	1200 mm ceiling fans to living and bedrooms
M502	2	79.4	0	22.6	17.5	6.9	
M503	1	50.4	0	29.3	19.7	6.2	
M504	1	49.8	0	34.7	24.9	5.4	
M505	2	78.6	0	8.2	15.2	8.2	
M601	3	93.4	0	12.7	25.6	7	1200 mm ceiling fans to living and bedrooms

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
M602	2	79.4	0	22.2	18.9	6.8	
M603	1	50.4	0	30.4	19.4	6.1	
M604	1	49.8	0	34.7	16.2	6	1200mm ceiling fan to living room
M605	2	78.6	0	8.9	15.9	8.1	
M701	3	93.4	0	12.2	24.8	7.1	1200 mm ceiling fans to living and bedrooms
M702	2	79.4	0	22	17.2	6.9	
M703	1	50.4	0	30.1	20.1	6.1	
M704	1	49.8	0	34.5	26.4	5.3	
M705	2	78.6	0	8.7	15.2	8.2	
M801	3	93.4	0	12.4	24.4	7.2	1200 mm ceiling fans to living and bedrooms
M802	2	79.4	0	22.3	17	6.9	
M803	1	50.4	0	30.4	20	6	
M804	1	49.8	0	34.5	27.2	5.3	
M805	2	78.6	0	8.8	15.1	8.2	
M901	3	93.4	0	12.6	24.2	7.2	1200 mm ceiling fans to living and bedrooms
M902	2	79.4	0	22.6	16.8	6.9	
M903	1	50.4	0	30.8	19.7	6	
M904	1	49.8	0	36.1	25.2	5.3	
M905	2	78.6	0	10.8	14.7	8	
M1001	3	93.4	0	13.9	28.1	6.7	
M1002	2	79.4	0	24.5	15.7	6.9	
M1003	1	50.4	0	33.2	18.5	5.9	
M1004	1	49.8	0	37.4	24.5	5.3	
M1005	2	78.6	0	12	14	7.9	
M1101	3	93.4	0	14.1	28.1	6.7	
M1102	2	79.4	0	24.8	15.8	6.9	
M1103	1	50.4	0	33.5	18.5	5.9	
M1104	1	49.8	0	35.9	25.8	5.3	
M1105	2	78.6	0	12	14.1	7.9	
M1201	3	93.4	0	14.2	27.8	6.8	
M1202	2	79.4	0	24.9	15.7	6.9	
M1203	1	50.4	0	33.7	18.2	5.9	
M1204	1	49.8	0	33.1	27.3	5.3	
M1205	2	78.6	0	11.7	14.6	7.9	
M1301	3	93.4	0	14.4	27.6	6.8	
M1302	2	79.4	0	25.2	15.7	6.8	
M1303	1	50.4	0	34	18.2	5.9	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
M1304	1	49.8	0	29.8	18.6	6.2	1200mm ceiling fan to living room
M1305	2	78.6	0	11.6	14.6	7.9	
M1401	3	93.4	0	14.7	27.6	6.7	
M1402	2	79.4	0	25.7	15.7	6.8	
M1403	1	50.4	0	34.9	18.3	5.8	
M1404	1	49.8	0	28.2	22.4	6	1200mm ceiling fan to living room
M1405	2	78.6	0	11.5	15.3	7.9	
M1501	3	93.4	0	14.6	27	6.8	
M1502	2	79.4	0	25.5	15.5	6.8	
M1503	1	50.4	0	34.7	17.5	5.9	
M1504	1	49.8	0	25.3	23.6	6.2	1200mm ceiling fan to living room and bedrooms
M1505	2	78.6	0	11.9	15.3	7.9	
M1601	3	93.4	0	14.6	26.8	6.8	
M1602	2	79.4	0	25.5	15.6	6.8	
M1603	1	50.4	0	34.8	17.4	5.9	
M1604	1	49.8	0	22.3	26.2	6.2	1200mm ceiling fan to living room and bedrooms
M1605	2	78.6	0	9	16	8.1	
M1701	3	93.4	0	14.7	26.4	6.8	
M1702	2	79.4	0	25.7	15.5	6.8	
M1703	1	50.4	0	35	17.7	5.9	
M1704	1	49.8	0	20.8	27.1	6.3	1200mm ceiling fan to living room and bedrooms
M1705	2	78.6	0	8.3	16.2	8.1	
M1801	3	93.4	0	28	24.5	5.9	1200mm ceiling fan to living
M1802	2	79.4	0	25.7	15.7	6.8	
M1803	1	50.4	0	35.1	17.8	5.9	
M1804	1	49.8	0	20.4	28.3	6.2	1200mm ceiling fan to living room and bedrooms
M1805	2	78.6	0	22.9	21.2	6.6	
M1901	2	79.4	0	22.8	15.4	7.1	
M1902	1	50.4	0	35.3	17.6	5.9	
M1903	2	75.9	0	9.5	15.3	8.1	Glazing Upgrade 3
M2001	2	79.4	0	22.8	15.7	7	
M2002	1	50.4	0	35.5	17.7	5.8	
M2003	2	75.9	0	7.8	15.8	8.2	Glazing Upgrade 3
M2101	2	79.4	0	23	15.6	7	
M2102	1	50.4	0	35.6	17.5	5.8	
M2103	2	75.9	0	7.9	15.8	8.2	Glazing Upgrade 3
M2201	2	79.4	0	23.1	15.5	7	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
M2202	1	50.4	0	35.6	17.4	5.9	
M2203	2	75.9	0	8	15.2	8.2	Glazing Upgrade 3
M2301	2	79.4	0	38	16	5.8	
M2302	1	50.4	0	45.1	15.6	5.3	Glazing Upgrade 1 awning and fixed
M2303	2	75.9	0	21.6	18.3	6.9	Glazing Upgrade 3
Building C4.1 - Social							
SGF01	2	71.2	0	38.9	8.5	6.3	
SGF02	2	70.2	0	38.7	7.7	6.4	Glazing Upgrade 3 to awning and fixed
SGF03	1	49.6	0	42.7	7.3	6.1	
SGF04	1	51.4	0	38.8	13.3	5.9	Glazing Upgrade 3 to awning and fixed
SGF05	2	70.1	0	35.2	15.6	6	
SGF06	1	62.1	0	36.5	5.7	6.7	
SGF07	2	81.9	0	39.9	5.5	6.4	
S101	2	71.3	0	23.1	15.4	7	
S102	2	72.9	0	23.6	9.8	7.4	
S103	1	49.9	0	36.4	13.6	6.1	
S104	1	49.6	0	25.9	9.3	7.3	
S105	1	51.4	0	32.2	15.6	6.3	
S106	2	70.2	0	21.8	15.2	7.1	
S107	2	71.1	0	18.7	11.8	7.6	
S108	1	56.8	0	17.1	10.1	7.9	
S109	1	56.4	0	23.1	14.9	7.1	
S201	2	71.3	0	23.7	17.2	6.8	
S202	2	72.9	0	23.4	11.6	7.3	
S203	1	49.9	0	32.8	13.8	6.4	
S204	1	49.6	0	26.7	9.4	7.2	
S205	1	51.2	0	31.9	15.8	6.3	
S206	2	70.2	0	22.5	17.4	6.9	
S207	2	71.1	0	19.1	12	7.6	
S208	1	56.8	0	17.5	9.9	7.9	
S209	1	57.1	0	23.9	15.6	6.9	
S301	2	71.3	0	29.6	18.8	6.2	
S302	2	72.9	0	23.7	12.2	7.2	
S303	1	49.9	0	36.2	11.3	6.3	
S304	1	49.6	0	28.1	8.1	7.2	
S305	1	51.2	0	26.8	17.5	6.6	
S306	2	70.2	0	17.7	27.2	6.5	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
S307	2	71.1	0	17	15.9	7.4	
S308	1	56.8	0	13.9	17.4	7.6	
S309	1	57	0	31.1	26.8	5.5	
S401	2	68.2	0	24.8	25	6.1	
S402	2	70.9	0	16.3	10.9	7.9	
S403	1	49.9	0	35.7	8	6.6	
S404	1	49.6	0	30.2	6.6	7.2	
S405	1	50.9	0	23.3	20.7	6.6	
S406	2	70.2	0	22.9	26.1	6.2	
S407	1	51.6	0	38.6	9.5	6.2	
S408	1	51.6	0	32.3	9.8	6.7	
S501	2	68.3	0	12.6	24.5	7.1	
S502	2	71	0	16.4	10.6	7.9	
S503	1	49.9	0	38.9	11.2	6.1	
S504	1	49.6	0	30.4	6.3	7.2	
S505	1	50.9	0	22.1	22.5	6.5	
S506	2	70.2	0	23.4	25.9	6.1	
S507	1	51.6	0	39.7	11.5	5.9	
S508	1	51.6	0	33.7	10.9	6.5	
S601	2	68.3	0	26.6	27	5.8	
S602	2	71	0	16.7	10.7	7.9	
S603	1	49.9	0	39.4	11.3	6	
S604	1	49.6	0	30.8	6.8	7.1	
S605	1	50.9	0	24.7	20.3	6.4	
S606	2	70.2	0	24.3	25.3	6.1	
S607	1	51.6	0	40.2	11.2	5.9	
S608	1	51.6	0	34	9.2	6.7	
S701	2	68.3	0	25	21.5	6.4	
S702	2	70.9	0	16.1	10.9	7.9	
S703	1	49.9	0	38.9	12.6	5.9	
S704	1	49.6	0	30.7	7.7	7	
S705	1	50.9	0	24.8	20.7	6.4	
S706	2	70.2	0	24.4	25.3	6.1	
S707	1	51.6	0	40.1	10.8	6	
S708	1	51.6	0	34	8.6	6.7	
S801	2	68.3	0	24.3	21.4	6.4	
S802	2	70.9	0	15.5	10.7	7.9	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
S803	1	49.9	0	38.4	12.9	5.9	
S804	1	49.6	0	30.7	8.1	7	
S805	1	50.9	0	25.1	20.3	6.4	
S806	2	70.2	0	24.6	24.9	6.1	
S807	1	51.6	0	40.4	10.6	6	
S808	1	51.6	0	34.3	8.6	6.7	
S901	2	68.3	0	23	21.2	6.6	
S902	2	70.9	0	14.6	10.7	8.1	
S903	1	49.9	0	37.3	13.1	6	
S904	1	49.6	0	30.6	9	6.9	
S905	1	50.9	0	25.4	19.9	6.4	
S906	2	70.2	0	24.9	25.1	6.1	
S907	1	51.6	0	40.8	10.2	6	
S908	1	51.6	0	34.6	8.5	6.7	
S1001	2	68.3	0	23.7	18.9	6.7	
S1002	2	70.9	0	15	9.3	8.1	
S1003	1	49.9	0	38.1	13	5.9	
S1004	1	49.6	0	32.3	8.2	6.9	
S1005	1	50.9	0	27.5	16.2	6.6	
S1006	2	70.2	0	26.7	21.7	6.2	
S1007	1	51.6	0	43.1	9.8	5.9	
S1008	1	51.6	0	36.9	7.5	6.5	
S1101	2	68.3	0	22	18.5	6.9	
S1102	2	70.9	0	13.3	9.4	8.3	
S1103	1	49.9	0	37.6	14.2	5.9	
S1104	1	49.6	0	32.1	8	6.9	
S1105	1	50.9	0	27.8	16.1	6.6	
S1106	2	70.2	0	26.9	21.4	6.2	
S1107	1	51.6	0	43.5	9.6	5.8	
S1108	1	51.6	0	37.2	7.6	6.5	
S1201	2	68.3	0	21.5	18.4	6.9	
S1202	2	70.9	0	11.9	9.5	8.4	
S1203	1	49.9	0	36.1	15	5.9	
S1204	1	49.6	0	30.8	9.2	6.9	
S1205	1	50.9	0	28	15.9	6.6	
S1206	2	70.2	0	27.1	21.2	6.2	
S1207	1	51.6	0	43.7	9.6	5.8	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
S1208	1	51.6	0	37.4	7.6	6.5	
S1301	2	68.3	0	20.5	18.6	6.9	
S1302	2	70.9	0	9.8	9.5	8.6	
S1303	1	49.9	0	33.9	15.2	6.2	
S1304	1	49.6	0	29.8	9.4	6.9	
S1305	1	50.9	0	28.3	15.8	6.6	
S1306	2	70.2	0	27.3	21.1	6.2	
S1307	1	51.6	0	38.5	9.4	6.3	Glazing Upgrade 1 to awning and fixed
S1308	1	51.6	0	37.7	7.5	6.4	
S1401	2	68.3	0	19.9	19.1	6.9	
S1402	2	70.9	0	8.6	9.6	8.7	
S1403	1	49.9	0	32.3	16.1	6.2	
S1404	1	49.6	0	28.1	10.3	7	
S1405	1	50.9	0	28.9	15.9	6.5	
S1406	2	70.2	0	27.8	20.9	6.2	
S1407	1	51.6	0	44.6	9.3	5.8	
S1408	1	51.6	0	38.3	7.6	6.4	
S1501	2	68.3	0	18.6	18.7	7.1	
S1502	2	70.9	0	7.1	9.5	8.8	
S1503	1	49.9	0	29.2	15.8	6.5	
S1504	1	49.6	0	25	10.6	7.2	
S1505	1	50.9	0	28.6	15.7	6.6	
S1506	2	70.2	0	27.6	20.9	6.2	
S1507	1	51.6	0	44.4	9.4	5.8	
S1508	1	51.6	0	38	7.6	6.4	
S1601	2	68.3	0	17.8	19	7.2	
S1602	2	70.9	0	5.7	9.5	8.9	
S1603	1	49.9	0	26.6	16.5	6.7	
S1604	1	49.6	0	22.5	11.4	7.4	
S1605	1	50.9	0	28.7	15.9	6.5	
S1606	2	70.2	0	27.6	20.5	6.2	
S1607	1	51.6	0	44.5	9.3	5.8	
S1608	1	51.6	0	38.1	7.6	6.4	
S1701	2	68.3	0	17.6	19.1	7.2	
S1702	2	70.9	0	5.3	9.6	8.9	
S1703	1	49.9	0	24.4	16.7	6.8	
S1704	1	49.6	0	21	10.9	7.5	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
S1705	1	50.9	0	28.8	15.9	6.5	
S1706	2	70.2	0	27.7	20.3	6.2	
S1707	1	51.6	0	44.7	9.2	5.8	
S1708	1	51.6	0	38.3	7.6	6.4	
S1801	2	68.3	0	17.6	19.1	7.2	
S1802	2	70.9	0	5.2	9.6	8.9	
S1803	1	49.9	0	24.2	16.6	6.9	
S1804	1	49.6	0	20.7	11.1	7.5	
S1805	1	50.9	0	29	15.5	6.5	
S1806	2	70.2	0	27.9	20.5	6.2	
S1807	1	51.6	0	44.8	9.2	5.8	
S1808	1	51.6	0	38.4	7.6	6.4	
S1901	2	68.3	0	17.7	19.3	7.1	
S1902	2	70.9	0	5.2	9.7	8.9	
S1903	1	49.9	0	24.3	16.6	6.8	
S1904	1	49.6	0	20	11.7	7.5	
S1905	1	50.9	0	29.2	15.5	6.5	
S1906	2	70.2	0	27.9	19.9	6.3	
S1907	1	51.6	0	45	9.4	5.8	
S1908	1	51.6	0	38.6	7.6	6.4	
S2001	2	68.3	0	17.8	19.1	7.1	
S2002	2	70.9	0	5.3	9.6	8.9	
S2003	1	49.9	0	24.4	16.2	6.9	
S2004	1	49.6	0	20.3	11.8	7.4	
S2005	1	50.9	0	29.2	14.9	6.6	
S2006	2	70.2	0	28	20.1	6.2	
S2007	1	51.6	0	45.1	9.5	5.7	
S2008	1	51.6	0	38.7	7.6	6.4	
S2101	2	68.3	0	17.9	18.9	7.2	
S2102	2	70.9	0	5.3	9.6	8.9	
S2103	1	49.9	0	24.5	16.3	6.9	
S2104	1	49.6	0	20.2	11.5	7.5	
S2105	1	50.9	0	29.4	14.7	6.6	
S2106	2	70.2	0	27.8	20.2	6.2	
S2107	1	51.6	0	44.9	9.5	5.8	Glazing Upgrade 1 awning and fixed Glazing Upgrade 2 to sliding doors R4.0 ceiling

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
S2108	1	51.6	0	45	9.6	5.7	Glazing Upgrade 1 awning and fixed R4.0 ceiling
S2201	2	68.3	0	18	18.9	7.2	
S2202	2	70.9	0	5.4	9.6	8.9	
S2203	1	49.9	0	24.6	16.3	6.8	
S2204	1	49.6	0	20.2	11.3	7.5	
S2205	1	50.9	0	29.5	14.7	6.6	
S2206	2	70.2	0	27.2	20.2	6.3	
S2301	2	68.3	0	33	25.1	5.4	
S2302	2	70.9	0	21	13.2	7.3	
S2303	1	49.9	0	40.2	17.5	5.5	
S2304	1	49.6	0	36.9	13.6	6	
S2305	1	50.9	0	44.3	17	5.3	
S2306	2	70.2	0	43.4	22.9	4.9	
Building C4.2 - Social							
GF.01	2	75	0	33.4	9	6.7	
GF.02	1	44	0	26.2	13.9	6.9	
GF.03	1	42	0	42.2	11.2	5.8	
GF.04	1	51	0	27.3	24.1	5.9	
1.01	1	64	0	39.2	8.7	6.3	
1.02	1	36	0	20.7	14.8	7.3	
1.03	2	77	0	30.8	8.2	6.9	
1.04	1	50	0	41.4	11.8	5.8	
1.05	1	40	0	16.4	18.3	7.3	
1.06	1	39	0	17.8	18.2	7.2	
1.07	1	35	0	18.8	28	6.4	R3.0 to walls; Glazing Upgrade 1; Glazing Upgrade 2
1.08	1	50	0	30.2	13.7	6.6	
1.09	2	70	0	30.3	26.4	5.6	
1.10	1	54	0	32.8	2.3	7.3	
1.11	1	50	0	35.8	9.5	6.4	
1.12	2	71	0	32.2	7.3	6.9	
2.01	1	36	0	19.5	23.7	6.6	
2.02	2	74	0	17.6	7.8	8.1	
2.03	1	50	0	23.8	11.1	7.3	
2.04	1	50	0	29.1	16.6	6.4	
2.05	1	50	0	33	9	6.7	
2.06	1	52	0	28.7	10.1	7	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
2.07	2	71	0	18.1	10.4	7.8	
2.08	2	69	0	43.4	10.3	5.8	R3.0 external wall Upgrade, glazing Upgrade 1 to all
2.09	2	70	0	15.6	13.8	7.7	
2.10	1	50	0	30.3	12.4	6.7	
2.11	1	50	0	34.6	11.3	6.4	
2.12	2	71	0	17.7	7.7	8.1	
2.13	2	71	0	38.1	6	6.6	
3.01	1	37	0	18.6	23.2	6.8	
3.02	2	74	0	17.8	7.7	8	
3.03	1	50	0	22.8	11	7.4	
3.04	1	50	0	30.1	15.5	6.4	
3.05	1	50	0	32	8.2	6.9	
3.06	1	52	0	28.5	9.2	7.1	
3.07	2	71	0	21.4	9.3	7.6	
3.08	2	69	0	42.8	11.5	5.8	
3.09	2	70	0	16.3	22.1	7	
3.10	1	50	0	26.6	12.9	6.9	
3.11	1	50	0	34	13.2	6.3	
3.12	2	71	0	16.4	7.4	8.2	
3.13	2	71	0	20.9	6.7	7.9	
4.01	1	37	0	21.4	19	6.9	
4.02	2	74	0	20.4	5.9	7.9	
4.03	1	50	0	26.6	9.4	7.2	
4.04	1	50	0	34.5	13.2	6.3	
4.05	1	50	0	34.8	7.1	6.8	
4.06	1	52	0	30.1	8.6	7	
4.07	2	71	0	23.4	10.5	7.4	
4.08	2	69	0	39.2	10.2	6.1	Glazing Upgrade 1 to living room <u>windows</u> only
4.09	2	70	0	18.8	15.7	7.3	
4.10	1	50	0	30.5	9.9	6.9	
4.11	1	50	0	38.2	11	6.1	
4.12	2	71	0	18.8	6.1	8.1	
4.13	2	71	0	24	4.8	7.8	
5.01	1	37	0	21.7	18.6	6.9	
5.02	2	74	0	20.8	5.9	7.9	
5.03	1	50	0	26.9	9.6	7.2	
5.04	1	50	0	35.1	13.3	6.2	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
5.05	1	50	0	36.1	6.4	6.7	
5.06	1	52	0	32.8	7.9	6.9	
5.07	2	71	0	26.7	9.1	7.2	
5.08	2	69	0	41.6	8.7	6.1	Glazing Upgrade 1 to living room <u>windows</u> only
5.09	2	70	0	19.4	15.1	7.3	
5.10	1	50	0	30.9	9.9	6.8	
5.11	1	50	0	38.7	10.7	6.1	
5.12	2	71	0	19.2	6.4	8	
5.13	2	71	0	24.6	4.7	7.7	
6.01	1	37	0	22.1	18.3	6.9	
6.02	2	74	0	21	5.7	7.9	
6.03	1	50	0	27.4	9.8	7.1	
6.04	1	50	0	34.6	16.4	6	
6.05	1	50	0	35.7	7	6.7	
6.06	1	52	0	30.6	9	6.9	
6.07	2	71	0	24.4	10.2	7.3	
6.08	2	69	0	40.2	9.7	6.1	Glazing Upgrade 1 to living room <u>windows</u> only
6.09	2	70	0	19.8	14.7	7.3	
6.10	1	50	0	31.2	10	6.8	
6.11	1	50	0	39	11.1	6.1	
6.12	2	71	0	19.5	6.2	8	
6.13	2	71	0	25	4.6	7.7	
7.01	1	37	0	22.7	17.4	6.9	
7.02	2	74	0	21.3	5.3	7.9	
7.03	1	50	0	27.6	10.2	7.1	
7.04	1	50	0	35.9	14	6.1	
7.05	1	50	0	36.7	6.6	6.6	
7.06	1	52	0	33.2	8.2	6.8	
7.07	2	71	0	27.9	9	7.2	
7.08	2	69	0	42.5	8.4	6	Glazing Upgrade 1 to living room <u>windows</u> only
7.09	2	70	0	20.2	14.1	7.3	
7.10	1	50	0	31.1	10.4	6.8	
7.11	1	50	0	38.8	12.4	5.9	
7.12	2	71	0	19.7	6.1	8	
7.13	2	71	0	25.3	4.6	7.7	
8.01	1	37	0	22.9	16.8	6.9	
8.02	2	74	0	21.4	5.4	7.9	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
8.03	1	50	0	27.7	10.1	7.1	
8.04	1	50	0	34.8	18.7	5.8	
8.05	1	50	0	36.3	7.1	6.6	
8.06	1	52	0	30.3	9	6.9	
8.07	2	71	0	25.2	9.9	7.3	
8.08	2	69	0	40.9	9.6	6	Glazing Upgrade 1 to living room <u>windows</u> only
8.09	2	70	0	20.3	13.7	7.4	
8.10	1	50	0	30.8	10.5	6.8	
8.11	1	50	0	38.5	12.4	6	
8.12	2	71	0	19.9	5.8	8	
8.13	2	71	0	25.6	4.7	7.6	
9.01	1	37	0	23.1	16.9	6.9	
9.02	2	74	0	21.5	5.5	7.9	
9.03	1	50	0	27.7	9.9	7.1	
9.04	1	50	0	36	15.6	5.9	
9.05	1	50	0	37	6.5	6.6	
9.06	1	52	0	32.6	7.8	6.9	
9.07	2	71	0	28.1	8.9	7.1	
9.08	2	69	0	43.2	8.7	5.9	Glazing Upgrade 1 to living room <u>windows</u> only
9.09	2	70	0	20.6	13.6	7.3	
9.10	1	50	0	30.6	10.5	6.8	
9.11	1	50	0	37.9	12.7	6	
9.12	2	71	0	19.9	5.6	8	
9.13	2	71	0	25.9	4.5	7.6	
10.01	1	37	0	23.3	16.5	6.9	
10.02	2	74	0	21.4	5.6	7.9	
10.03	1	50	0	27.3	10.4	7.1	
10.04	1	50	0	32.4	20.5	5.9	
10.05	1	50	0	35.8	7.8	6.6	
10.06	1	52	0	28.4	8.5	7.2	
10.07	2	71	0	25.4	9.9	7.3	
10.08	2	69	0	41.6	9.8	5.9	Glazing Upgrade 1 to living room <u>windows</u> only
10.09	2	70	0	20.9	13.1	7.4	
10.10	1	50	0	30.2	11.3	6.8	
10.11	1	50	0	36.4	13.3	6.1	
10.12	2	71	0	19.7	5.5	8.1	
10.13	2	71	0	26.1	4.5	7.6	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
11.01	1	37	0	24	13.3	7.1	
11.02	2	74	0	22	5	7.9	
11.03	1	50	0	28.2	10.1	7.1	
11.04	1	50	0	38	15.7	5.8	
11.05	1	50	0	37.6	6.5	6.6	
11.06	1	52	0	31.8	7.2	6.9	
11.07	2	71	0	30.4	8.4	7	
11.08	2	69	0	45.3	7.7	5.9	Glazing Upgrade 1 to living room <u>windows</u> only
11.09	2	70	0	22.6	11.6	7.3	
11.10	1	50	0	31.6	10.6	6.7	
11.11	1	50	0	37	13	6.1	
11.12	2	71	0	20.1	4.8	8.1	
11.13	2	71	0	27.5	4.2	7.5	
12.01	1	37	0	24	13.4	7.1	
12.02	2	74	0	21.3	5	7.9	
12.03	1	50	0	27.2	10.4	7.1	
12.04	1	50	0	31.6	19.9	5.9	
12.05	1	50	0	34.7	7.4	6.7	
12.06	1	52	0	25.8	8.2	7.4	
12.07	2	71	0	27.6	9.1	7.2	
12.08	2	69	0	43.7	8.6	5.9	Glazing Upgrade 1 to living room <u>windows</u> only
12.09	2	70	0	22.8	11.3	7.4	
12.10	1	50	0	30.9	10.7	6.8	
12.11	1	50	0	37.3	13	6.1	
12.12	2	71	0	19.4	5	8.1	
12.13	2	71	0	27.7	4.1	7.5	
13.01	1	37	0	24.2	13.4	7.1	
13.02	2	74	0	19.7	5.2	8.1	
13.03	1	50	0	26.2	10.2	7.2	
13.04	1	50	0	37.4	18.2	5.7	
13.05	1	50	0	34	6.5	6.9	
13.06	1	52	0	26.6	7.5	7.3	
13.07	2	71	0	30.8	8.2	6.9	
13.08	2	69	0	44.5	7.9	5.9	Glazing Upgrade 1 to all living room glazing only
13.09	2	70	0	22.9	11.1	7.4	
13.10	1	50	0	29.4	10.9	6.9	
13.11	1	50	0	34.6	12.7	6.3	

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
13.12	2	71	0	17.8	5.4	8.2	
13.13	2	71	0	27.7	4.2	7.5	
14.01	1	37	0	23.9	13.3	7.1	
14.02	2	74	0	18.5	5.5	8.2	
14.03	1	50	0	24.6	10.7	7.3	
14.04	1	50	0	29.2	20.8	6.1	
14.05	1	50	0	28.1	7.8	7.2	
14.06	1	52	0	18.4	8.4	7.9	
14.07	2	71	0	27.9	9.2	7.1	
14.08	2	69	0	44	9	5.9	Glazing Upgrade 1 to living room <u>windows</u> only
14.09	2	70	0	23	11	7.4	
14.10	1	50	0	27.2	11.3	7	
14.11	1	50	0	33.1	13.2	6.4	
14.12	2	71	0	16.7	5.7	8.3	
14.13	2	71	0	27.8	4.3	7.4	
15.01	1	37	0	24.2	13	7.1	
15.02	2	74	0	16.6	5.5	8.3	
15.03	1	50	0	22.2	11	7.4	
15.04	1	50	0	34.1	19.3	5.8	
15.05	1	50	0	26.9	6.9	7.4	
15.06	1	52	0	18.7	8	7.9	
15.07	2	71	0	31.1	8.4	6.9	
15.08	2	69	0	44.5	8	5.9	Glazing Upgrade 1 to all living room glazing only
15.09	2	70	0	23.1	11.1	7.3	
15.10	1	50	0	24.8	11.4	7.2	
15.11	1	50	0	31.2	13.3	6.5	
15.12	2	71	0	15.3	5.6	8.4	
15.13	2	71	0	27.7	4.5	7.4	
16.01	1	37	0	35.6	10.7	6.4	
16.02	2	74	0	28	4.4	7.4	
16.03	1	50	0	27.2	8.6	7.2	
16.04	1	50	0	33.5	18.1	5.9	
16.05	1	50	0	32.7	6	7	
16.06	1	52	0	13.3	7.1	8.4	
16.07	2	71	0	43.4	6.5	6.1	
16.08	2	69	0	45.4	5.3	6	R3.0 to external walls; Hinged Doors Upgrade 1, Remaining Upgrade 3

Certificate # 0006177800, HR-4EXMEW-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
16.09	2	70	0	31.7	8.1	6.9	
16.10	1	50	0	31	9.6	6.9	
16.11	1	50	0	33.4	14.4	6.3	
16.12	2	71	0	26.1	4.3	7.6	
16.13	2	71	0	40.8	3.1	6.6	
Building C4.4 - Market Townhouses							
TH.01	4	141.6	0	27.4	27.1	5.8	
TH.02	4	141.6	0	23.7	26.4	6.1	
TH.03	4	141.6	0	22.9	24.4	6.3	
TH.04	4	141.6	0	27.9	25.8	5.8	
TH.05	4	141.6	0	36.1	26.9	5.2	

Nationwide House Energy Rating Scheme — Class 2 Summary

NatHERS Certificate No. #HR-4EXMEW-01

Generated on 20 Nov 2025 using Hero 4.1

Property

Address Epping Road, Macquarie Park, NSW, 2113

Lot/DP 100/-/DP1262209

NatHERS climate zone 56 - Mascot AMO

Accredited assessor



Tracey Cools

Efficient Living

tracey@efficientliving.com.au

+61 400083525

Accreditation No. 10033

Assessor Accrediting Organisation HERA

A graphic showing an average rating of 6.7. It features a semi-circle with blue stars at the top and a green bar with the text 'NATIONWIDE HOUSE ENERGY RATING SCHEME'. Below the bar is a white box with text and a blue bar with a website URL.

6.7
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 <http://www.hero-software.com.au/pdf/HR-4EXMEW-01>. When using either link, ensure you are visiting <http://www.hero-software.com.au>

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-AW2QH7-01	C4.1 M1001	13.9 (45)	28.1 (30)	42.0	6.7
HR-OQ7Z1N-01	C4.1 M1002	24.5 (45)	15.7 (30)	40.1	6.9
HR-SX0EFB-01	C4.1 M1003	33.2 (45)	18.5 (30)	51.6	5.9
HR-UEYBUZ-01	C4.1 M1004	37.4 (45)	24.5 (30)	61.9	5.3

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 all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-YDWTCZ-01	C4.1 M1005	12.0 (45)	14.0 (30)	26.0	7.9
HR-HPAE6H-01	C4.1 M101	27.4 (45)	26.1 (30)	53.5	5.8
HR-Y34Q4X-01	C4.1 M102	9.4 (45)	24.5 (30)	33.9	7.4
HR-7NKTFV-01	C4.1 M103	14.7 (45)	20.5 (30)	35.2	7.3
HR-9V1ZPS-01	C4.1 M104	37.6 (45)	27.1 (30)	64.6	5.1
HR-IE6UK8-01	C4.1 M105	29.4 (45)	20.5 (30)	49.9	6.1
HR-GEGQ4G-01	C4.1 M106	7.8 (45)	18.2 (30)	26.0	7.9
HR-64O4S6-01	C4.1 M1101	14.1 (45)	28.1 (30)	42.2	6.7
HR-QGY4OP-01	C4.1 M1102	24.8 (45)	15.8 (30)	40.6	6.9
HR-NUASGS-01	C4.1 M1103	33.5 (45)	18.5 (30)	52.0	5.9
HR-MPKBLO-01	C4.1 M1104	35.9 (45)	25.8 (30)	61.7	5.3
HR-NGZ474-01	C4.1 M1105	12.0 (45)	14.1 (30)	26.1	7.9
HR-XVWUAL-01	C4.1 M1201	14.2 (45)	27.8 (30)	42.0	6.8
HR-XULEQH-01	C4.1 M1202	24.9 (45)	15.7 (30)	40.6	6.9
HR-VOEIQD-01	C4.1 M1203	33.7 (45)	18.2 (30)	51.9	5.9
HR-0UO24K-01	C4.1 M1204	33.1 (45)	27.3 (30)	60.4	5.3
HR-N5R6FW-01	C4.1 M1205	11.7 (45)	14.6 (30)	26.3	7.9
HR-FBDN94-01	C4.1 M1301	14.4 (45)	27.6 (30)	41.9	6.8
HR-FVJWZ1-01	C4.1 M1302	25.2 (45)	15.7 (30)	40.9	6.8
HR-DXIQV4-01	C4.1 M1303	34.0 (45)	18.2 (30)	52.2	5.9
HR-BVNN77-01	C4.1 M1304	29.8 (45)	18.6 (30)	48.4	6.2
HR-LBPCBU-01	C4.1 M1305	11.6 (45)	14.6 (30)	26.2	7.9
HR-8JR1KM-01	C4.1 M1401	14.7 (45)	27.6 (30)	42.3	6.7
HR-WEL75P-01	C4.1 M1402	25.7 (45)	15.7 (30)	41.4	6.8
HR-Z933SA-01	C4.1 M1403	34.9 (45)	18.3 (30)	53.2	5.8
HR-AJ1KRV-01	C4.1 M1404	28.2 (45)	22.4 (30)	50.6	6.0
HR-ESPO54-01	C4.1 M1405	11.5 (45)	15.3 (30)	26.7	7.9
HR-O7MDK6-01	C4.1 M1501	14.6 (45)	27.0 (30)	41.5	6.8
HR-AAOCJ4-01	C4.1 M1502	25.5 (45)	15.5 (30)	41.0	6.8



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-YVF2M3-01	C4.1 M1503	34.7 (45)	17.5 (30)	52.1	5.9
HR-JBB5MP-01	C4.1 M1504	25.3 (45)	23.6 (30)	48.8	6.2
HR-FXHHIZ-01	C4.1 M1505	11.9 (45)	15.3 (30)	27.3	7.9
HR-VYR9QM-01	C4.1 M1601	14.6 (45)	26.8 (30)	41.4	6.8
HR-S5MWRY-01	C4.1 M1602	25.5 (45)	15.6 (30)	41.1	6.8
HR-6689W8-01	C4.1 M1603	34.8 (45)	17.4 (30)	52.2	5.9
HR-GC1VX1-01	C4.1 M1604	22.3 (45)	26.2 (30)	48.5	6.2
HR-GOEAG4-01	C4.1 M1605	9.0 (45)	16.0 (30)	25.0	8.1
HR-4W1D9O-01	C4.1 M1701	14.7 (45)	26.4 (30)	41.1	6.8
HR-ZWCBSQ-01	C4.1 M1702	25.7 (45)	15.5 (30)	41.2	6.8
HR-XDCSZA-01	C4.1 M1703	35.0 (45)	17.7 (30)	52.6	5.9
HR-4VDKSQ-01	C4.1 M1704	20.8 (45)	27.1 (30)	48.0	6.3
HR-1ESTR7-01	C4.1 M1705	8.3 (45)	16.2 (30)	24.4	8.1
HR-1MMB3I-01	C4.1 M1801	28.0 (45)	24.5 (30)	52.5	5.9
HR-UJTN1C-01	C4.1 M1802	25.7 (45)	15.7 (30)	41.4	6.8
HR-289LDG-01	C4.1 M1803	35.1 (45)	17.8 (30)	52.9	5.9
HR-MTLG9C-01	C4.1 M1804	20.4 (45)	28.3 (30)	48.7	6.2
HR-C1JLQ1-01	C4.1 M1805	22.9 (45)	21.2 (30)	44.1	6.6
HR-AOT9YB-01	C4.1 M1901	22.8 (45)	15.4 (30)	38.2	7.1
HR-0VDABR-01	C4.1 M1902	35.3 (45)	17.6 (30)	52.9	5.9
HR-XLUMEZ-01	C4.1 M1903	9.5 (45)	15.3 (30)	24.7	8.1
HR-PPOTG7-01	C4.1 M2001	22.8 (45)	15.7 (30)	38.5	7.0
HR-IRCCFA-01	C4.1 M2002	35.5 (45)	17.7 (30)	53.2	5.8
HR-JGGTD2-01	C4.1 M2003	7.8 (45)	15.8 (30)	23.6	8.2
HR-GDXHX2-01	C4.1 M201	11.6 (45)	25.4 (30)	37.0	7.1
HR-UHFV7X-01	C4.1 M202	10.6 (45)	22.9 (30)	33.5	7.4
HR-H13ET2-01	C4.1 M203	15.3 (45)	19.8 (30)	35.2	7.3
HR-UKZTMN-01	C4.1 M204	37.9 (45)	24.9 (30)	62.8	5.2
HR-ONFUA7-01	C4.1 M205	29.7 (45)	17.5 (30)	47.2	6.3



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-4J3JCD-01	C4.1 M206	2.6 (45)	20.9 (30)	23.6	8.2
HR-UHOZ1M-01	C4.1 M2101	23.0 (45)	15.6 (30)	38.5	7.0
HR-E1GD7E-01	C4.1 M2102	35.6 (45)	17.5 (30)	53.2	5.8
HR-B4O0OL-01	C4.1 M2103	7.9 (45)	15.8 (30)	23.7	8.2
HR-NDY3VY-01	C4.1 M2201	23.1 (45)	15.5 (30)	38.6	7.0
HR-JRUK2V-01	C4.1 M2202	35.6 (45)	17.4 (30)	52.9	5.9
HR-GNM9Y5-01	C4.1 M2203	8.0 (45)	15.2 (30)	23.2	8.2
HR-P16E41-01	C4.1 M2301	38.0 (45)	16.0 (30)	54.0	5.8
HR-7RMHGA-01	C4.1 M2302	45.1 (45)	15.6 (30)	60.7	5.3
HR-OPN9D4-01	C4.1 M2303	21.6 (45)	18.3 (30)	39.9	6.9
HR-0CIYZP-01	C4.1 M301	15.5 (45)	28.3 (30)	43.8	6.6
HR-1UAZ6C-01	C4.1 M302	4.0 (45)	24.5 (30)	28.4	7.8
HR-EI0F6F-01	C4.1 M303	10.6 (45)	25.8 (30)	36.4	7.2
HR-7XA9IG-01	C4.1 M304	33.4 (45)	25.4 (30)	58.8	5.4
HR-4NFUVY-01	C4.1 M305	36.2 (45)	14.8 (30)	51.0	6.0
HR-QMSADU-01	C4.1 M306	3.7 (45)	19.8 (30)	23.5	8.2
HR-VXJ1NG-01	C4.1 M401	11.8 (45)	26.3 (30)	38.0	7.1
HR-4PL4AU-01	C4.1 M402	21.2 (45)	19.0 (30)	40.2	6.9
HR-TKMB4S-01	C4.1 M403	28.6 (45)	19.4 (30)	48.0	6.3
HR-7HLKMH-01	C4.1 M404	34.7 (45)	18.4 (30)	53.1	5.9
HR-9ECXUV-01	C4.1 M405	7.9 (45)	15.4 (30)	23.2	8.2
HR-TKAQF4-01	C4.1 M501	12.1 (45)	25.9 (30)	38.0	7.1
HR-XBULVQ-01	C4.1 M502	22.6 (45)	17.5 (30)	40.0	6.9
HR-B8G2WJ-01	C4.1 M503	29.3 (45)	19.7 (30)	49.0	6.2
HR-V0O7YM-01	C4.1 M504	34.7 (45)	24.9 (30)	59.6	5.4
HR-EOU99Y-01	C4.1 M505	8.2 (45)	15.2 (30)	23.4	8.2
HR-KGR0D6-01	C4.1 M601	12.7 (45)	25.6 (30)	38.4	7.0
HR-1XAU7M-01	C4.1 M602	22.2 (45)	18.9 (30)	41.1	6.8
HR-NU38SH-01	C4.1 M603	30.4 (45)	19.4 (30)	49.8	6.1



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-EOMKCW-01	C4.1 M604	35.3 (45)	16.2 (30)	51.5	5.9
HR-GFO92S-01	C4.1 M605	8.9 (45)	15.9 (30)	24.8	8.1
HR-3F9ADH-01	C4.1 M701	12.2 (45)	24.8 (30)	37.1	7.1
HR-09C9KH-01	C4.1 M702	22.0 (45)	17.2 (30)	39.2	6.9
HR-TE8Q98-01	C4.1 M703	30.1 (45)	20.1 (30)	50.2	6.1
HR-Y6WC2Q-01	C4.1 M704	34.5 (45)	26.4 (30)	60.9	5.3
HR-L3Q8MI-01	C4.1 M705	8.7 (45)	15.2 (30)	23.8	8.2
HR-32SJOT-01	C4.1 M801	12.4 (45)	24.4 (30)	36.8	7.2
HR-DPA79X-01	C4.1 M802	22.3 (45)	17.0 (30)	39.3	6.9
HR-0KSBT8-01	C4.1 M803	30.4 (45)	20.0 (30)	50.5	6.0
HR-MC817C-01	C4.1 M804	34.5 (45)	27.2 (30)	61.6	5.3
HR-WS6V7I-01	C4.1 M805	8.8 (45)	15.1 (30)	23.9	8.2
HR-JBCNH6-01	C4.1 M901	12.6 (45)	24.2 (30)	36.8	7.2
HR-KJSKTI-01	C4.1 M902	22.6 (45)	16.8 (30)	39.4	6.9
HR-15CAFR-01	C4.1 M903	30.8 (45)	19.7 (30)	50.5	6.0
HR-WXIIIIB-01	C4.1 M904	36.1 (45)	25.2 (30)	61.3	5.3
HR-Y7NAJC-01	C4.1 M905	10.8 (45)	14.7 (30)	25.5	8.0
HR-GK0D3P-01	C4.1 MGF01	43.7 (45)	25.3 (30)	69.0	4.8
HR-BFNJRH-01	C4.1 MGF02	20.5 (45)	22.6 (30)	43.1	6.7
HR-HV1XIQ-01	C4.1 MGF03	28.7 (45)	20.4 (30)	49.1	6.2
HR-QSAJK1-01	C4.1 MGF04	42.9 (45)	15.6 (30)	58.5	5.4
HR-14NV5Q-01	C4.1 MGF05	38.3 (45)	12.9 (30)	51.2	5.9
HR-DO5G4T-01	C4.1 S1001	23.7 (45)	18.9 (30)	42.6	6.7
HR-UNMSYM-01	C4.1 S1002	15.0 (45)	9.3 (30)	24.3	8.1
HR-R72H2U-01	C4.1 S1003	38.1 (45)	13.0 (30)	51.1	5.9
HR-5FTCMP-01	C4.1 S1004	32.3 (45)	8.2 (30)	40.5	6.9
HR-008VC8-01	C4.1 S1005	27.5 (45)	16.2 (30)	43.7	6.6
HR-XQIBIS-01	C4.1 S1006	26.7 (45)	21.7 (30)	48.4	6.2
HR-G9ZSHL-01	C4.1 S1007	43.1 (45)	9.8 (30)	52.9	5.9



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-UTKIAS-01	C4.1 S1008	36.9 (45)	7.5 (30)	44.4	6.5
HR-8J3DL4-01	C4.1 S101	23.1 (45)	15.4 (30)	38.5	7.0
HR-F1ZGRB-01	C4.1 S102	23.6 (45)	9.8 (30)	33.3	7.4
HR-7BBH1Z-01	C4.1 S103	35.3 (45)	14.1 (30)	49.3	6.1
HR-5HYLVH-01	C4.1 S104	25.9 (45)	9.3 (30)	35.2	7.3
HR-ZSQC9Q-01	C4.1 S105	32.2 (45)	15.6 (30)	47.8	6.3
HR-TF05GY-01	C4.1 S106	21.8 (45)	15.2 (30)	36.9	7.1
HR-41G6NQ-01	C4.1 S107	18.6 (45)	12.4 (30)	31.0	7.6
HR-0L49AY-01	C4.1 S108	17.1 (45)	10.1 (30)	27.1	7.9
HR-MZRA9F-01	C4.1 S109	23.1 (45)	14.9 (30)	38.1	7.1
HR-NWYEG2-01	C4.1 S1101	22.0 (45)	18.5 (30)	40.6	6.9
HR-J12Y2L-01	C4.1 S1102	13.3 (45)	9.4 (30)	22.8	8.3
HR-8L0SGZ-01	C4.1 S1103	37.6 (45)	14.2 (30)	51.7	5.9
HR-ZFXLY3-01	C4.1 S1104	32.1 (45)	8.0 (30)	40.1	6.9
HR-QPL7OR-01	C4.1 S1105	27.8 (45)	16.1 (30)	43.9	6.6
HR-A7I49F-01	C4.1 S1106	26.9 (45)	21.4 (30)	48.4	6.2
HR-M8GJB3-01	C4.1 S1107	43.5 (45)	9.6 (30)	53.1	5.8
HR-W4EXH1-01	C4.1 S1108	37.2 (45)	7.6 (30)	44.8	6.5
HR-IYQUU4-01	C4.1 S1201	21.5 (45)	18.4 (30)	39.9	6.9
HR-UH9884-01	C4.1 S1202	11.9 (45)	9.5 (30)	21.4	8.4
HR-AIZ9M3-01	C4.1 S1203	36.1 (45)	15.0 (30)	51.1	5.9
HR-9FFF3I-01	C4.1 S1204	30.8 (45)	9.2 (30)	40.0	6.9
HR-BZUR1F-01	C4.1 S1205	28.0 (45)	15.9 (30)	43.8	6.6
HR-C2YPRO-01	C4.1 S1206	27.1 (45)	21.2 (30)	48.3	6.2
HR-FQBF3Z-01	C4.1 S1207	43.7 (45)	9.6 (30)	53.3	5.8
HR-KCD1NJ-01	C4.1 S1208	37.4 (45)	7.6 (30)	45.0	6.5
HR-L7UXXR-01	C4.1 S1301	20.5 (45)	18.6 (30)	39.2	6.9
HR-PMQTX4-01	C4.1 S1302	9.8 (45)	9.5 (30)	19.3	8.6
HR-B6FRYX-01	C4.1 S1303	33.9 (45)	15.2 (30)	49.0	6.2



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-AHQGBS-01	C4.1 S1304	29.8 (45)	9.4 (30)	39.1	6.9
HR-82CDWU-01	C4.1 S1305	28.3 (45)	15.8 (30)	44.1	6.6
HR-02RTYV-01	C4.1 S1306	27.3 (45)	21.1 (30)	48.4	6.2
HR-RULLNH-01	C4.1 S1307	38.5 (45)	9.4 (30)	47.8	6.3
HR-3T3HG0-01	C4.1 S1308	37.7 (45)	7.5 (30)	45.2	6.4
HR-6ABNFU-01	C4.1 S1401	19.9 (45)	19.1 (30)	39.0	6.9
HR-DC2CH9-01	C4.1 S1402	8.6 (45)	9.6 (30)	18.2	8.7
HR-H8MJBG-01	C4.1 S1403	32.3 (45)	16.1 (30)	48.4	6.2
HR-TQ0RVW-01	C4.1 S1404	28.1 (45)	10.3 (30)	38.4	7.0
HR-2RQW31-01	C4.1 S1405	28.9 (45)	15.9 (30)	44.8	6.5
HR-PUZZF1-01	C4.1 S1406	27.8 (45)	20.9 (30)	48.7	6.2
HR-LZGB2I-01	C4.1 S1407	44.6 (45)	9.3 (30)	53.9	5.8
HR-XS0LTH-01	C4.1 S1408	38.3 (45)	7.6 (30)	45.8	6.4
HR-HAF82V-01	C4.1 S1501	18.6 (45)	18.7 (30)	37.3	7.1
HR-4D0DI2-01	C4.1 S1502	7.1 (45)	9.5 (30)	16.6	8.8
HR-1L8EYT-01	C4.1 S1503	29.2 (45)	15.8 (30)	45.0	6.5
HR-Z7AD0F-01	C4.1 S1504	25.0 (45)	10.6 (30)	35.6	7.2
HR-UH56H9-01	C4.1 S1505	28.6 (45)	15.7 (30)	44.4	6.6
HR-TIECVM-01	C4.1 S1506	27.6 (45)	20.9 (30)	48.5	6.2
HR-BAVN7O-01	C4.1 S1507	44.4 (45)	9.4 (30)	53.8	5.8
HR-VV1189-01	C4.1 S1508	38.0 (45)	7.6 (30)	45.6	6.4
HR-9AK42C-01	C4.1 S1601	17.8 (45)	19.0 (30)	36.8	7.2
HR-N9MA4I-01	C4.1 S1602	5.7 (45)	9.5 (30)	15.3	8.9
HR-7J40TF-01	C4.1 S1603	26.6 (45)	16.5 (30)	43.1	6.7
HR-T9YSMN-01	C4.1 S1604	22.5 (45)	11.4 (30)	33.8	7.4
HR-AQH8G8-01	C4.1 S1605	28.7 (45)	15.9 (30)	44.6	6.5
HR-HVTK0O-01	C4.1 S1606	27.6 (45)	20.5 (30)	48.1	6.2
HR-0PDIS3-01	C4.1 S1607	44.5 (45)	9.3 (30)	53.8	5.8
HR-2AC7NC-01	C4.1 S1608	38.1 (45)	7.6 (30)	45.7	6.4



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-J3L7NX-01	C4.1 S1701	17.6 (45)	19.1 (30)	36.7	7.2
HR-HF7DCE-01	C4.1 S1702	5.3 (45)	9.6 (30)	14.9	8.9
HR-K65AVZ-01	C4.1 S1703	24.4 (45)	16.7 (30)	41.1	6.8
HR-0OCP33-01	C4.1 S1704	21.0 (45)	10.9 (30)	31.9	7.5
HR-1HADVB-01	C4.1 S1705	28.8 (45)	15.9 (30)	44.7	6.5
HR-ZN3SWQ-01	C4.1 S1706	27.7 (45)	20.3 (30)	48.0	6.2
HR-9GOW75-01	C4.1 S1707	44.7 (45)	9.2 (30)	53.9	5.8
HR-7MAFTC-01	C4.1 S1708	38.3 (45)	7.6 (30)	45.9	6.4
HR-X83KKW-01	C4.1 S1801	17.6 (45)	19.1 (30)	36.7	7.2
HR-VHIJ3Q-01	C4.1 S1802	5.2 (45)	9.6 (30)	14.8	8.9
HR-BZNP3D-01	C4.1 S1803	24.2 (45)	16.6 (30)	40.8	6.9
HR-KJTF5H-01	C4.1 S1804	20.7 (45)	11.1 (30)	31.8	7.5
HR-EQICO7-01	C4.1 S1805	29.0 (45)	15.5 (30)	44.5	6.5
HR-NT0Z6C-01	C4.1 S1806	27.9 (45)	20.5 (30)	48.3	6.2
HR-FSK3S1-01	C4.1 S1807	44.8 (45)	9.2 (30)	54.0	5.8
HR-LEYWC5-01	C4.1 S1808	38.4 (45)	7.6 (30)	46.1	6.4
HR-U0RPB4-01	C4.1 S1901	17.7 (45)	19.3 (30)	36.9	7.1
HR-AQFHZ0-01	C4.1 S1902	5.2 (45)	9.7 (30)	14.9	8.9
HR-LNG67B-01	C4.1 S1903	24.3 (45)	16.6 (30)	40.9	6.8
HR-0UN6ZV-01	C4.1 S1904	20.0 (45)	11.7 (30)	31.8	7.5
HR-LY4P8G-01	C4.1 S1905	29.2 (45)	15.5 (30)	44.6	6.5
HR-C011J7-01	C4.1 S1906	27.9 (45)	19.9 (30)	47.9	6.3
HR-RZFDCE-01	C4.1 S1907	45.0 (45)	9.4 (30)	54.4	5.8
HR-RU16C0-01	C4.1 S1908	38.6 (45)	7.6 (30)	46.2	6.4
HR-DYRW3D-01	C4.1 S2001	17.8 (45)	19.1 (30)	36.9	7.1
HR-PLSO0S-01	C4.1 S2002	5.3 (45)	9.6 (30)	14.9	8.9
HR-XGT7GC-01	C4.1 S2003	24.4 (45)	16.2 (30)	40.6	6.9
HR-RJ8L03-01	C4.1 S2004	20.3 (45)	11.8 (30)	32.2	7.4
HR-NVV4V9-01	C4.1 S2005	29.2 (45)	14.9 (30)	44.2	6.6



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-GFWF20-01	C4.1 S2006	28.0 (45)	20.1 (30)	48.2	6.2
HR-O14H19-01	C4.1 S2007	45.1 (45)	9.5 (30)	54.5	5.7
HR-8347SS-01	C4.1 S2008	38.7 (45)	7.6 (30)	46.4	6.4
HR-DD49HZ-01	C4.1 S201	23.5 (45)	17.1 (30)	40.7	6.9
HR-1NSARA-01	C4.1 S202	23.4 (45)	11.6 (30)	35.0	7.3
HR-OF64Q1-01	C4.1 S203	31.8 (45)	14.0 (30)	45.9	6.4
HR-LNC8TV-01	C4.1 S204	26.7 (45)	9.4 (30)	36.0	7.2
HR-9KQY6S-01	C4.1 S205	32.3 (45)	15.2 (30)	47.5	6.3
HR-6XFWJM-01	C4.1 S206	22.6 (45)	17.4 (30)	40.0	6.9
HR-YMC6XO-01	C4.1 S207	19.1 (45)	12.1 (30)	31.2	7.6
HR-RK8HOX-01	C4.1 S208	17.5 (45)	9.9 (30)	27.4	7.9
HR-ZMCDE5-01	C4.1 S209	23.9 (45)	15.6 (30)	39.5	6.9
HR-2047XI-01	C4.1 S2101	17.9 (45)	18.9 (30)	36.8	7.2
HR-R0AR0X-01	C4.1 S2102	5.3 (45)	9.6 (30)	14.8	8.9
HR-1NEMMC-01	C4.1 S2103	24.5 (45)	16.3 (30)	40.8	6.9
HR-OWBMZ7-01	C4.1 S2104	20.2 (45)	11.5 (30)	31.7	7.5
HR-HYRO55-01	C4.1 S2105	29.4 (45)	14.7 (30)	44.1	6.6
HR-G3GSY3-01	C4.1 S2106	27.8 (45)	20.2 (30)	48.1	6.2
HR-66DU30-01	C4.1 S2107	44.9 (45)	9.5 (30)	54.4	5.8
HR-FJULAU-01	C4.1 S2108	45.0 (45)	9.6 (30)	54.6	5.7
HR-HB000C-01	C4.1 S2201	18.0 (45)	18.9 (30)	36.9	7.2
HR-UXO9BI-01	C4.1 S2202	5.4 (45)	9.6 (30)	15.0	8.9
HR-7IP6MK-01	C4.1 S2203	24.6 (45)	16.3 (30)	40.9	6.8
HR-VAMIJ2-01	C4.1 S2204	20.2 (45)	11.3 (30)	31.6	7.5
HR-CCLC0F-01	C4.1 S2205	29.5 (45)	14.7 (30)	44.2	6.6
HR-5J03A2-01	C4.1 S2206	27.2 (45)	20.2 (30)	47.4	6.3
HR-67GMRT-01	C4.1 S2301	33.0 (45)	25.1 (30)	58.0	5.4
HR-0Q9RQ0-01	C4.1 S2302	21.0 (45)	13.2 (30)	34.2	7.3
HR-CH23FV-01	C4.1 S2303	40.2 (45)	17.5 (30)	57.7	5.5



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-YTM6BY-01	C4.1 S2304	36.9 (45)	13.6 (30)	50.4	6.0
HR-ONN8ES-01	C4.1 S2305	44.3 (45)	17.0 (30)	61.4	5.3
HR-D045FA-01	C4.1 S2306	43.4 (45)	22.9 (30)	66.3	4.9
HR-HW6QSY-01	C4.1 S301	29.8 (45)	18.9 (30)	48.7	6.2
HR-L7UEFD-01	C4.1 S302	23.7 (45)	12.2 (30)	35.9	7.2
HR-6KDH7O-01	C4.1 S303	36.2 (45)	11.3 (30)	47.5	6.3
HR-6P6V38-01	C4.1 S304	28.1 (45)	8.1 (30)	36.2	7.2
HR-9TXUZD-01	C4.1 S305	26.8 (45)	17.5 (30)	44.2	6.6
HR-L153YE-01	C4.1 S306	17.7 (45)	27.2 (30)	44.9	6.5
HR-39LN3R-01	C4.1 S307	17.0 (45)	15.9 (30)	32.9	7.4
HR-K9NY74-01	C4.1 S308	13.9 (45)	17.4 (30)	31.3	7.6
HR-U31GCT-01	C4.1 S309	31.1 (45)	26.8 (30)	57.9	5.5
HR-CKRPGP-01	C4.1 S401	24.9 (45)	24.9 (30)	49.8	6.1
HR-JK90QO-01	C4.1 S402	16.3 (45)	10.9 (30)	27.3	7.9
HR-BZXZ57-01	C4.1 S403	35.7 (45)	8.0 (30)	43.7	6.6
HR-GX54RC-01	C4.1 S404	30.2 (45)	6.6 (30)	36.8	7.2
HR-IL0WEC-01	C4.1 S405	23.2 (45)	20.9 (30)	44.1	6.6
HR-8YW3OP-01	C4.1 S406	22.9 (45)	26.1 (30)	48.9	6.2
HR-CCMP8I-01	C4.1 S407	38.6 (45)	9.5 (30)	48.1	6.2
HR-ONPKGQ-01	C4.1 S408	32.3 (45)	9.8 (30)	42.1	6.7
HR-3G0J6Q-01	C4.1 S501	12.6 (45)	24.5 (30)	37.2	7.1
HR-4IUYYK-01	C4.1 S502	16.4 (45)	10.6 (30)	27.0	7.9
HR-YSWKQF-01	C4.1 S503	38.9 (45)	11.2 (30)	50.1	6.1
HR-OSLDMG-01	C4.1 S504	30.4 (45)	6.3 (30)	36.7	7.2
HR-2WYPPU-01	C4.1 S505	22.1 (45)	22.5 (30)	44.5	6.5
HR-DXBI31-01	C4.1 S506	23.4 (45)	25.9 (30)	49.3	6.1
HR-9K72U5-01	C4.1 S507	39.7 (45)	11.5 (30)	51.1	5.9
HR-DNY6P1-01	C4.1 S508	33.7 (45)	10.9 (30)	44.6	6.5
HR-P9I2G0-01	C4.1 S601	26.6 (45)	27.0 (30)	53.6	5.8



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-630R59-01	C4.1 S602	16.7 (45)	10.7 (30)	27.4	7.9
HR-IO2ULG-01	C4.1 S603	39.4 (45)	11.3 (30)	50.7	6.0
HR-ES7JLX-01	C4.1 S604	30.8 (45)	6.8 (30)	37.6	7.1
HR-O6RFDG-01	C4.1 S605	24.7 (45)	20.3 (30)	45.0	6.4
HR-OZEZ70-01	C4.1 S606	24.3 (45)	25.3 (30)	49.6	6.1
HR-PV4R2B-01	C4.1 S607	40.2 (45)	11.2 (30)	51.4	5.9
HR-PNQJ1X-01	C4.1 S608	34.0 (45)	9.2 (30)	43.2	6.7
HR-L7RDOX-01	C4.1 S701	25.0 (45)	21.5 (30)	46.5	6.4
HR-TSKMNS-01	C4.1 S702	16.1 (45)	10.9 (30)	27.0	7.9
HR-9L5W02-01	C4.1 S703	38.9 (45)	12.6 (30)	51.5	5.9
HR-9CKQ8R-01	C4.1 S704	30.7 (45)	7.7 (30)	38.4	7.0
HR-W4SAHP-01	C4.1 S705	24.8 (45)	20.7 (30)	45.5	6.4
HR-T9Y5OR-01	C4.1 S706	24.4 (45)	25.3 (30)	49.6	6.1
HR-DAA5OA-01	C4.1 S707	40.1 (45)	10.8 (30)	50.9	6.0
HR-FWN8YJ-01	C4.1 S708	34.0 (45)	8.6 (30)	42.6	6.7
HR-0PYGWB-01	C4.1 S801	24.3 (45)	21.4 (30)	45.7	6.4
HR-MA28HQ-01	C4.1 S802	15.5 (45)	10.7 (30)	26.2	7.9
HR-G9SKT9-01	C4.1 S803	38.4 (45)	12.9 (30)	51.2	5.9
HR-IWXCQP-01	C4.1 S804	30.7 (45)	8.1 (30)	38.8	7.0
HR-C31VHU-01	C4.1 S805	25.1 (45)	20.3 (30)	45.4	6.4
HR-QLYL1F-01	C4.1 S806	24.6 (45)	24.9 (30)	49.5	6.1
HR-JFB91X-01	C4.1 S807	40.4 (45)	10.6 (30)	51.0	6.0
HR-DFLMYU-01	C4.1 S808	34.3 (45)	8.6 (30)	42.9	6.7
HR-2C1FF0-01	C4.1 S901	23.0 (45)	21.2 (30)	44.2	6.6
HR-LTT116-01	C4.1 S902	14.6 (45)	10.7 (30)	25.3	8.1
HR-O2YG7L-01	C4.1 S903	37.3 (45)	13.1 (30)	50.4	6.0
HR-9YLR65-01	C4.1 S904	30.6 (45)	9.0 (30)	39.5	6.9
HR-0VZAC6-01	C4.1 S905	25.4 (45)	19.9 (30)	45.3	6.4
HR-1DXOAC-01	C4.1 S906	24.9 (45)	25.1 (30)	50.0	6.1

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (MJ/m ²)	Cooling load (MJ/m ²)	Total load (MJ/m ²)	Star rating
HR-U78ZT8-01	C4.1 S907	40.8 (45)	10.2 (30)	50.9	6.0
HR-Q6JGL9-01	C4.1 S908	34.6 (45)	8.5 (30)	43.1	6.7
HR-5L18UW-01	C4.1 SGF01	37.5 (45)	10.6 (30)	48.1	6.2
HR-5HEPPD-01	C4.1 SGF02	39.3 (45)	7.2 (30)	46.5	6.4
HR-NK94ZG-01	C4.1 SGF03	42.7 (45)	7.3 (30)	50.0	6.1
HR-VH9LL2-01	C4.1 SGF04	38.8 (45)	13.3 (30)	52.1	5.9
HR-80QYC3-01	C4.1 SGF05	35.1 (45)	15.6 (30)	50.7	6.0
HR-1AI0M7-01	C4.1 SGF06	34.2 (45)	7.5 (30)	41.7	6.8
HR-62R1X5-01	C4.1 SGF07	37.8 (45)	7.1 (30)	45.0	6.5
HR-DJFM8V-01	TH01	27.4 (45)	27.1 (30)	54.4	5.8
HR-PT7YNV-01	TH02	23.7 (45)	26.4 (30)	50.1	6.1
HR-VNIRWC-01	TH03	22.9 (45)	24.4 (30)	47.3	6.3
HR-D7JEOD-01	TH04	27.9 (45)	25.8 (30)	53.7	5.8
HR-Q5YV5K-01	TH05	36.1 (45)	26.9 (30)	63.1	5.2
Average	308x (Total)	26.0	16.5	42.5	6.7

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.

Disclaimer

The format of the NatHERS Certificate was developed by the NatHERS Administrator. However the content, input and creation of the NatHERS Certificate is by the assessor. 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.

Nationwide House Energy Rating Scheme — Class 2 summary

NatHERS Certificate No. 0006177800

Generated on 21 Nov 2025 using BERS Pro v4.4.1.5 (3.21)

Property

Address Midtown - Lot C4,
Macquarie Park , NSW , 2113

Lot/DP 25/1262209

NatHERS climate zone 56

Accredited assessor



Tracey Cools

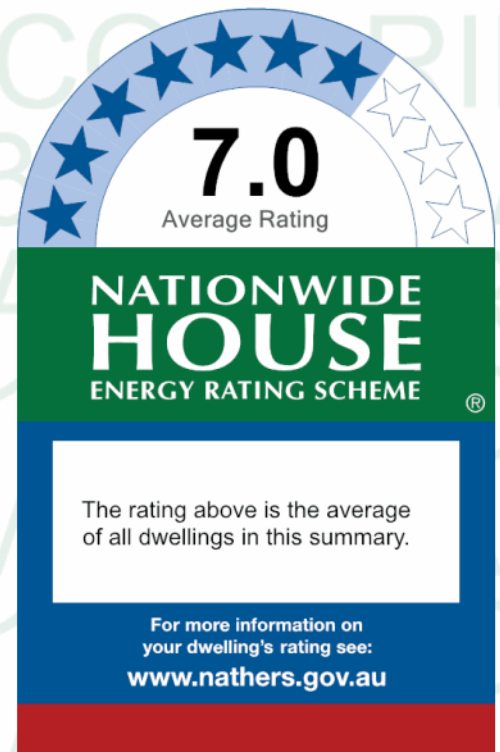
Efficient Living Pty Ltd

admin@efficientliving.com.au

02 9970 6181

Accreditation No. HERA10033

Assessor Accrediting Organisation HERA



Verification

To verify this certificate, scan the QR code or visit hstar.com.au/QR/Generate?p=hoQuvOFZT. When using either link, ensure you are visiting hstar.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
0012401634	C4.2.1.01	39.2	8.7	47.9	6.3
0012401642	C4.2.1.02	20.7	14.8	35.5	7.3
0012401428	C4.2.1.03	30.8	8.2	39	6.9
0012401451	C4.2.1.04	41.4	11.8	53.2	5.8
0012398699	C4.2.1.05	16.4	18.3	34.8	7.3

National Construction Code (NCC) requirements

Continued Over

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 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
0012398715	C4.2.1.06	17.8	18.2	36	7.2
0012398947	C4.2.1.07	18.8	28	46.8	6.4
0012401659	C4.2.1.08	30.2	13.7	43.9	6.6
0012400057	C4.2.1.09	30.3	26.4	56.8	5.6
0012399978	C4.2.1.10	32.8	2.3	35.2	7.3
0012400008	C4.2.1.11	35.8	9.5	45.3	6.4
0012401238	C4.2.1.12	32.2	7.3	39.5	6.9
0012398905	C4.2.2.01	19.5	23.7	43.2	6.6
0012400925	C4.2.2.02	17.6	7.8	25.4	8.1
0012401477	C4.2.2.03	23.8	11.1	35	7.3
0012401246	C4.2.2.04	29.1	16.6	45.7	6.4
0012398988	C4.2.2.05	33	9	42.1	6.7
0012400081	C4.2.2.06	28.7	10.1	38.8	7
0012398657	C4.2.2.07	18.1	10.4	28.5	7.8
0012400537	C4.2.2.08	43.4	10.3	53.7	5.8
0012400677	C4.2.2.09	15.6	13.8	29.4	7.7
0012400743	C4.2.2.10	30.3	12.4	42.7	6.7
0012399895	C4.2.2.11	34.6	11.3	45.9	6.4
0012401089	C4.2.2.12	17.7	7.7	25.4	8.1
0012400347	C4.2.2.13	38.1	6	44.1	6.6
0012398731	C4.2.3.01	18.6	23.2	41.8	6.8
0012401006	C4.2.3.02	17.8	7.7	25.5	8
0012401493	C4.2.3.03	22.8	11	33.8	7.4
0012401287	C4.2.3.04	30.1	15.5	45.6	6.4
0012399010	C4.2.3.05	32	8.2	40.1	6.9
0012400156	C4.2.3.06	28.5	9.2	37.7	7.1
0012403614	C4.2.3.07	21.4	9.3	30.7	7.6
0012400404	C4.2.3.08	42.8	11.5	54.3	5.8
0012400628	C4.2.3.09	16.3	22.1	38.4	7



<u>0012400776</u>	C4.2.3.10	26.6	12.9	39.5	6.9
<u>0012399911</u>	C4.2.3.11	34	13.2	47.2	6.3
<u>0012401105</u>	C4.2.3.12	16.4	7.4	23.8	8.2
<u>0012400248</u>	C4.2.3.13	20.9	6.7	27.7	7.9
<u>0012398756</u>	C4.2.4.01	21.4	19	40.3	6.9
<u>0012400933</u>	C4.2.4.02	20.4	5.9	26.3	7.9
<u>0012401519</u>	C4.2.4.03	26.6	9.4	35.9	7.2
<u>0012401329</u>	C4.2.4.04	34.5	13.2	47.7	6.3
<u>0012398996</u>	C4.2.4.05	34.8	7.1	41.9	6.8
<u>0012400172</u>	C4.2.4.06	30.1	8.6	38.7	7
<u>0012403630</u>	C4.2.4.07	23.4	10.5	33.9	7.4
<u>0012400412</u>	C4.2.4.08	39.2	10.2	49.3	6.1
<u>0012400552</u>	C4.2.4.09	18.8	15.7	34.5	7.3
<u>0012400818</u>	C4.2.4.10	30.5	9.9	40.4	6.9
<u>0012399945</u>	C4.2.4.11	38.2	11	49.3	6.1
<u>0012401097</u>	C4.2.4.12	18.8	6.1	25	8.1
<u>0012400255</u>	C4.2.4.13	24	4.8	28.8	7.8
<u>0012398723</u>	C4.2.5.01	21.7	18.6	40.3	6.9
<u>0012400974</u>	C4.2.5.02	20.8	5.9	26.7	7.9
<u>0012401535</u>	C4.2.5.03	26.9	9.6	36.5	7.2
<u>0012401352</u>	C4.2.5.04	35.1	13.3	48.4	6.2
<u>0012399028</u>	C4.2.5.05	36.1	6.4	42.5	6.7
<u>0012400099</u>	C4.2.5.06	32.8	7.9	40.7	6.9
<u>0012403580</u>	C4.2.5.07	26.7	9.1	35.8	7.2
<u>0012400453</u>	C4.2.5.08	41.6	8.7	50.3	6.1
<u>0012400602</u>	C4.2.5.09	19.4	15.1	34.4	7.3
<u>0012400867</u>	C4.2.5.10	30.9	9.9	40.8	6.8
<u>0012399887</u>	C4.2.5.11	38.7	10.7	49.3	6.1
<u>0012401113</u>	C4.2.5.12	19.2	6.4	25.6	8
<u>0012400263</u>	C4.2.5.13	24.6	4.7	29.3	7.7
<u>0012398749</u>	C4.2.6.01	22.1	18.3	40.4	6.9
<u>0012400990</u>	C4.2.6.02	21	5.7	26.8	7.9



<u>0012401402</u>	C4.2.6.03	27.4	9.8	37.2	7.1
<u>0012401253</u>	C4.2.6.04	34.6	16.4	51	6
<u>0012399002</u>	C4.2.6.05	35.7	7	42.7	6.7
<u>0012400115</u>	C4.2.6.06	30.6	9	39.6	6.9
<u>0012403606</u>	C4.2.6.07	24.4	10.2	34.6	7.3
<u>0012400487</u>	C4.2.6.08	40.2	9.7	49.9	6.1
<u>0012400610</u>	C4.2.6.09	19.8	14.7	34.5	7.3
<u>0012400735</u>	C4.2.6.10	31.2	10	41.2	6.8
<u>0012399903</u>	C4.2.6.11	39	11.1	50.1	6.1
<u>0012401121</u>	C4.2.6.12	19.5	6.2	25.7	8
<u>0012400305</u>	C4.2.6.13	25	4.6	29.6	7.7
<u>0012398806</u>	C4.2.7.01	22.7	17.4	40.1	6.9
<u>0012400941</u>	C4.2.7.02	21.3	5.3	26.6	7.9
<u>0012401436</u>	C4.2.7.03	27.6	10.2	37.8	7.1
<u>0012401279</u>	C4.2.7.04	35.9	14	49.9	6.1
<u>0012399036</u>	C4.2.7.05	36.7	6.6	43.3	6.6
<u>0012400149</u>	C4.2.7.06	33.2	8.2	41.4	6.8
<u>0012403622</u>	C4.2.7.07	27.9	9	36.9	7.2
<u>0012400503</u>	C4.2.7.08	42.5	8.4	51	6
<u>0012400586</u>	C4.2.7.09	20.2	14.1	34.2	7.3
<u>0012400768</u>	C4.2.7.10	31.1	10.4	41.5	6.8
<u>0012399937</u>	C4.2.7.11	38.8	12.4	51.2	5.9
<u>0012401162</u>	C4.2.7.12	19.7	6.1	25.8	8
<u>0012400321</u>	C4.2.7.13	25.3	4.6	30	7.7
<u>0012398848</u>	C4.2.8.01	22.9	16.8	39.8	6.9
<u>0012400966</u>	C4.2.8.02	21.4	5.4	26.8	7.9
<u>0012401444</u>	C4.2.8.03	27.7	10.1	37.7	7.1
<u>0012401303</u>	C4.2.8.04	34.8	18.7	53.4	5.8
<u>0012399069</u>	C4.2.8.05	36.3	7.1	43.3	6.6
<u>0012400164</u>	C4.2.8.06	30.3	9	39.3	6.9
<u>0012403598</u>	C4.2.8.07	25.2	9.9	35.1	7.3
<u>0012400420</u>	C4.2.8.08	40.9	9.6	50.5	6



<u>0012400644</u>	C4.2.8.09	20.3	13.7	34	7.4
<u>0012400800</u>	C4.2.8.10	30.8	10.5	41.3	6.8
<u>0012399929</u>	C4.2.8.11	38.5	12.4	50.9	6
<u>0012401188</u>	C4.2.8.12	19.9	5.8	25.7	8
<u>0012400362</u>	C4.2.8.13	25.6	4.7	30.2	7.6
<u>0012398863</u>	C4.2.9.01	23.1	16.9	40	6.9
<u>0012400982</u>	C4.2.9.02	21.5	5.5	27	7.9
<u>0012401485</u>	C4.2.9.03	27.7	9.9	37.5	7.1
<u>0012401337</u>	C4.2.9.04	36	15.6	51.6	5.9
<u>0012399093</u>	C4.2.9.05	37	6.5	43.5	6.6
<u>0012400107</u>	C4.2.9.06	32.6	7.8	40.4	6.9
<u>0012403663</u>	C4.2.9.07	28.1	8.9	37.1	7.1
<u>0012400446</u>	C4.2.9.08	43.2	8.7	51.9	5.9
<u>0012400685</u>	C4.2.9.09	20.6	13.6	34.3	7.3
<u>0012400842</u>	C4.2.9.10	30.6	10.5	41.1	6.8
<u>0012399952</u>	C4.2.9.11	37.9	12.7	50.6	6
<u>0012401204</u>	C4.2.9.12	19.9	5.6	25.5	8
<u>0012400370</u>	C4.2.9.13	25.9	4.5	30.4	7.6
<u>0012398814</u>	C4.2.10.01	23.3	16.5	39.8	6.9
<u>0012401022</u>	C4.2.10.02	21.4	5.6	27	7.9
<u>0012401501</u>	C4.2.10.03	27.3	10.4	37.7	7.1
<u>0012401360</u>	C4.2.10.04	32.4	20.5	52.9	5.9
<u>0012399127</u>	C4.2.10.05	35.8	7.8	43.6	6.6
<u>0012400123</u>	C4.2.10.06	28.4	8.5	36.9	7.2
<u>0012403689</u>	C4.2.10.07	25.4	9.9	35.3	7.3
<u>0012400479</u>	C4.2.10.08	41.6	9.8	51.3	5.9
<u>0012400701</u>	C4.2.10.09	20.9	13.1	34	7.4
<u>0012400859</u>	C4.2.10.10	30.2	11.3	41.5	6.8
<u>0012399986</u>	C4.2.10.11	36.4	13.3	49.7	6.1
<u>0012401139</u>	C4.2.10.12	19.7	5.5	25.3	8.1
<u>0012400289</u>	C4.2.10.13	26.1	4.5	30.6	7.6
<u>0012398855</u>	C4.2.11.01	24	13.3	37.3	7.1



<u>0012401048</u>	C4.2.11.02	22	5	27	7.9
<u>0012401527</u>	C4.2.11.03	28.2	10.1	38.3	7.1
<u>0012401261</u>	C4.2.11.04	38	15.7	53.7	5.8
<u>0012399051</u>	C4.2.11.05	37.6	6.5	44.1	6.6
<u>0012400206</u>	C4.2.11.06	31.8	7.2	39	6.9
<u>0012403713</u>	C4.2.11.07	30.4	8.4	38.8	7
<u>0012400495</u>	C4.2.11.08	45.3	7.7	53	5.9
<u>0012400719</u>	C4.2.11.09	22.6	11.6	34.2	7.3
<u>0012400750</u>	C4.2.11.10	31.6	10.6	42.2	6.7
<u>0012399994</u>	C4.2.11.11	37	13	50	6.1
<u>0012401170</u>	C4.2.11.12	20.1	4.8	25	8.1
<u>0012400297</u>	C4.2.11.13	27.5	4.2	31.7	7.5
<u>0012398871</u>	C4.2.12.01	24	13.4	37.4	7.1
<u>0012401063</u>	C4.2.12.02	21.3	5	26.3	7.9
<u>0012401394</u>	C4.2.12.03	27.2	10.4	37.6	7.1
<u>0012401295</u>	C4.2.12.04	31.6	19.9	51.5	5.9
<u>0012399077</u>	C4.2.12.05	34.7	7.4	42.1	6.7
<u>0012400214</u>	C4.2.12.06	25.8	8.2	34	7.4
<u>0012403739</u>	C4.2.12.07	27.6	9.1	36.6	7.2
<u>0012400438</u>	C4.2.12.08	43.7	8.6	52.2	5.9
<u>0012400636</u>	C4.2.12.09	22.8	11.3	34	7.4
<u>0012400784</u>	C4.2.12.10	30.9	10.7	41.6	6.8
<u>0012400024</u>	C4.2.12.11	37.3	13	50.3	6.1
<u>0012401196</u>	C4.2.12.12	19.4	5	24.4	8.1
<u>0012400339</u>	C4.2.12.13	27.7	4.1	31.8	7.5
<u>0012398822</u>	C4.2.13.01	24.2	13.4	37.6	7.1
<u>0012401014</u>	C4.2.13.02	19.7	5.2	25	8.1
<u>0012401311</u>	C4.2.13.04	37.4	18.2	55.6	5.7
<u>0012399101</u>	C4.2.13.05	34	6.5	40.5	6.9
<u>0012400180</u>	C4.2.13.06	26.6	7.5	34.1	7.3
<u>0012403648</u>	C4.2.13.07	30.8	8.2	39	6.9
<u>0012400461</u>	C4.2.13.08	44.5	7.9	52.4	5.9



<u>0012400669</u>	C4.2.13.09	22.9	11.1	34	7.4
<u>0012400792</u>	C4.2.13.10	29.4	10.9	40.4	6.9
<u>0012400040</u>	C4.2.13.11	34.6	12.7	47.3	6.3
<u>0012401212</u>	C4.2.13.12	17.8	5.4	23.2	8.2
<u>0012400354</u>	C4.2.13.13	27.7	4.2	31.8	7.5
<u>0012398830</u>	C4.2.14.01	23.9	13.3	37.2	7.1
<u>0012401055</u>	C4.2.14.02	18.5	5.5	24	8.2
<u>0012401410-01</u>	C4.2.14.03	24.6	10.7	35.3	7.3
<u>0012401345</u>	C4.2.14.04	29.2	20.8	49.9	6.1
<u>0012399119</u>	C4.2.14.05	28.1	7.8	35.9	7.2
<u>0012400230</u>	C4.2.14.06	18.4	8.4	26.8	7.9
<u>0012403697</u>	C4.2.14.07	27.9	9.2	37.1	7.1
<u>0012400511</u>	C4.2.14.08	44	9	53	5.9
<u>0012400693</u>	C4.2.14.09	23	11	34	7.4
<u>0012400826</u>	C4.2.14.10	27.2	11.3	38.5	7
<u>0012399960</u>	C4.2.14.11	33.1	13.2	46.3	6.4
<u>0012401147</u>	C4.2.14.12	16.7	5.7	22.4	8.3
<u>0012400388</u>	C4.2.14.13	27.8	4.3	32	7.4
<u>0012398889</u>	C4.2.15.01	24.2	13	37.2	7.1
<u>0012401071</u>	C4.2.15.02	16.6	5.5	22.2	8.3
<u>0012401469</u>	C4.2.15.03	22.2	11	33.1	7.4
<u>0012401378</u>	C4.2.15.04	34.1	19.3	53.5	5.8
<u>0012399044</u>	C4.2.15.05	26.9	6.9	33.8	7.4
<u>0012400198</u>	C4.2.15.06	18.7	8	26.7	7.9
<u>0012403705</u>	C4.2.15.07	31.1	8.4	39.6	6.9
<u>0012400545</u>	C4.2.15.08	44.5	8	52.5	5.9
<u>0012400727</u>	C4.2.15.09	23.1	11.1	34.2	7.3
<u>0012400883</u>	C4.2.15.10	24.8	11.4	36.2	7.2
<u>0012400016</u>	C4.2.15.11	31.2	13.3	44.5	6.5
<u>0012401154</u>	C4.2.15.12	15.3	5.6	20.9	8.4
<u>0012400271</u>	C4.2.15.13	27.7	4.5	32.3	7.4
<u>0012398897</u>	C4.2.16.01	35.6	10.7	46.3	6.4



<u>0012401030</u>	C4.2.16.02	28	4.4	32.4	7.4
<u>0012398665</u>	C4.2.16.03	27.2	8.6	35.8	7.2
<u>0012401386</u>	C4.2.16.04	33.5	18.1	51.6	5.9
<u>0012399085</u>	C4.2.16.05	32.7	6	38.7	7
<u>0012400222-01</u>	C4.2.16.06	13.3	7.1	20.5	8.4
<u>0012403721</u>	C4.2.16.07	43.4	6.5	50	6.1
<u>0012400529</u>	C4.2.16.08	45.4	5.3	50.7	6
<u>0012400651</u>	C4.2.16.09	31.7	8.1	39.8	6.9
<u>0012400909</u>	C4.2.16.10	31	9.6	40.6	6.9
<u>0012400032</u>	C4.2.16.11	33.4	14.4	47.7	6.3
<u>0012401220</u>	C4.2.16.12	26.1	4.3	30.4	7.6
<u>0012400313</u>	C4.2.16.13	40.8	3.1	44	6.6
<u>0012403572</u>	C4.2.GF.01	33.4	9	42.4	6.7
<u>0012403655</u>	C4.2.GF.02	26.2	13.9	40.1	6.9
<u>0012343232</u>	C4.2.GF.03	40.6	21.2	61.8	5.3
<u>0012403671</u>	C4.2.GF.04	27.3	24.1	51.4	5.9
Average		28.54	10.36	38.90	6.97

Explanatory notes

About this ratings

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.

Disclaimer

The format of the NatHERS Certificate was developed by the NatHERS Administrator. However the content, input and creation of the NatHERS Certificate is by the assessor. 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.

BASIX™ Certificate

Building Sustainability Index

www.planningportal.nsw.gov.au/development-and-assessment/basix

Multi Dwelling

Certificate number: 1199962M_09

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at www.planningportal.nsw.gov.au/definitions

This certificate is a revision of certificate number 1199962M_07 lodged with the consent authority or certifier on 12 December 2023 with application SSD-15822622.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 21 November 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



When submitting this BASIX certificate with a development application or complying development certificate application, it must be accompanied by NatHERS certificate #HR-4EXMEW-01.

Project summary		
Project name	Midtown C4 - Macquarie Park_09	
Street address	N/A N/A STREET MACQUARIE PARK 2113	
Local Government Area	RYDE	
Plan type and plan number	Deposited Plan 1262209	
Lot no.	25	
Section no.	-	
No. of residential flat buildings	2	
No. of units in residential flat buildings	519	
No. of multi-dwelling houses	0	
No. of single dwelling houses	0	
Project score		
Water	✓ 40	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 27	Target 25

Certificate Prepared by
Name / Company Name: Efficient Living Pty Ltd
ABN (if applicable): 82116346082

Description of project

Project address

Project name	Midtown C4 - Macquarie Park_09
Street address	N/A N/A STREET MACQUARIE PARK 2113
Local Government Area	RYDE
Plan type and plan number	Deposited Plan 1262209
Lot no.	25
Section no.	-

Project type

No. of residential flat buildings	2
No. of units in residential flat buildings	519
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Site details

Site area (m ²)	7508
Roof area (m ²)	3055
Non-residential floor area (m ²)	0.00
Residential car spaces	383
Non-residential car spaces	0




Common area landscape

Common area lawn (m ²)	367.00
Common area garden (m ²)	1945.00
Area of indigenous or low water use species (m ²)	0

Assessor details and thermal loads

Assessor number	HERA10033
Certificate number	#HR-4EXMEW-01
Climate zone	56
Ceiling fan in at least one bedroom	Yes
Ceiling fan in at least one living room or other conditioned area	Yes

Project score

Water	 40	Target 40
Thermal Comfort	 Pass	Target Pass
Energy	 27	Target 25

Description of project

The tables below describe the dwellings and common areas within the project

Residential flat buildings - C4.2 Social, 211 dwellings, 17 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
1.01	1	64	0	0	0
1.05	1	40	0	0	0
1.09	2	70	0	0	0
10.01	1	37	0	0	0
10.05	1	50	0	0	0
10.09	2	70	0	0	0
10.13	2	71	0	0	0
11.04	1	50	0	0	0
11.08	2	69	0	0	0
11.12	2	71	0	0	0
12.03	1	50	0	0	0
12.07	2	71	0	0	0
12.11	1	50	0	0	0
13.02	2	74	0	0	0
13.06	1	52	0	0	0
13.1	1	50	0	0	0
14.01	1	37	0	0	0
14.05	1	50	0	0	0
14.09	2	70	0	0	0
14.13	2	71	0	0	0
15.04	1	50	0	0	0
Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
1.02	1	36	0	0	0
1.06	1	39	0	0	0
1.1	1	54	0	0	0
10.02	2	74	0	0	0
10.06	1	52	0	0	0
10.1	1	50	0	0	0
11.01	1	37	0	0	0
11.05	1	50	0	0	0
11.09	2	70	0	0	0
11.13	2	71	0	0	0
12.04	1	50	0	0	0
12.08	2	69	0	0	0
12.12	2	71	0	0	0
13.03	1	50	0	0	0
13.07	2	71	0	0	0
13.11	1	50	0	0	0
14.02	2	74	0	0	0
14.06	1	52	0	0	0
14.1	1	50	0	0	0
15.01	1	37	0	0	0
15.05	1	50	0	0	0
Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
1.03	2	77	0	0	0
1.07	1	35	0	0	0
1.11	1	50	0	0	0
10.03	1	50	0	0	0
10.07	2	71	0	0	0
10.11	1	50	0	0	0
11.02	2	74	0	0	0
11.06	1	52	0	0	0
11.1	1	50	0	0	0
12.01	1	37	0	0	0
12.05	1	50	0	0	0
12.09	2	70	0	0	0
12.13	2	71	0	0	0
13.04	1	50	0	0	0
13.08	2	69	0	0	0
13.12	2	71	0	0	0
14.03	1	50	0	0	0
14.07	2	71	0	0	0
14.11	1	50	0	0	0
15.02	2	74	0	0	0
15.06	1	52	0	0	0
Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
1.04	1	50	0	0	0
1.08	1	50	0	0	0
1.12	2	71	0	0	0
10.04	1	50	0	0	0
10.08	2	69	0	0	0
10.12	2	71	0	0	0
11.03	1	50	0	0	0
11.07	2	71	0	0	0
11.11	1	50	0	0	0
12.02	2	74	0	0	0
12.06	1	52	0	0	0
12.1	1	50	0	0	0
13.01	1	37	0	0	0
13.05	1	50	0	0	0
13.09	2	70	0	0	0
13.13	2	71	0	0	0
14.04	1	50	0	0	0
14.08	2	69	0	0	0
14.12	2	71	0	0	0
15.03	1	50	0	0	0
15.07	2	71	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
15.08	2	69	0	0	0
15.12	2	71	0	0	0
16.03	1	50	0	0	0
16.07	2	71	0	0	0
16.11	1	50	0	0	0
2.02	2	74	0	0	0
2.06	1	52	0	0	0
2.1	1	50	0	0	0
3.01	1	37	0	0	0
3.05	1	50	0	0	0
3.09	2	70	0	0	0
3.13	2	71	0	0	0
4.04	1	50	0	0	0
4.08	2	69	0	0	0
4.12	2	71	0	0	0
5.03	1	50	0	0	0
5.07	2	71	0	0	0
5.11	1	50	0	0	0
6.02	2	74	0	0	0
6.06	1	52	0	0	0
6.1	1	50	0	0	0
7.01	1	37	0	0	0
7.05	1	50	0	0	0
7.09	2	70	0	0	0
7.13	2	71	0	0	0
8.04	1	50	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
15.09	2	70	0	0	0
15.13	2	71	0	0	0
16.04	1	50	0	0	0
16.08	2	69	0	0	0
16.12	2	71	0	0	0
2.03	1	50	0	0	0
2.07	2	71	0	0	0
2.11	1	50	0	0	0
3.02	2	74	0	0	0
3.06	1	52	0	0	0
3.1	1	50	0	0	0
4.01	1	37	0	0	0
4.05	1	50	0	0	0
4.09	2	70	0	0	0
4.13	2	71	0	0	0
5.04	1	50	0	0	0
5.08	2	69	0	0	0
5.12	2	71	0	0	0
6.03	1	50	0	0	0
6.07	2	71	0	0	0
6.11	1	50	0	0	0
7.02	2	74	0	0	0
7.06	1	52	0	0	0
7.1	1	50	0	0	0
8.01	1	37	0	0	0
8.05	1	50	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
15.1	1	50	0	0	0
16.01	1	37	0	0	0
16.05	1	50	0	0	0
16.09	2	70	0	0	0
16.13	2	71	0	0	0
2.04	1	50	0	0	0
2.08	2	69	0	0	0
2.12	2	71	0	0	0
3.03	1	50	0	0	0
3.07	2	71	0	0	0
3.11	1	50	0	0	0
4.02	2	74	0	0	0
4.06	1	52	0	0	0
4.1	1	50	0	0	0
5.01	1	37	0	0	0
5.05	1	50	0	0	0
5.09	2	70	0	0	0
5.13	2	71	0	0	0
6.04	1	50	0	0	0
6.08	2	69	0	0	0
6.12	2	71	0	0	0
7.03	1	50	0	0	0
7.07	2	71	0	0	0
7.11	1	50	0	0	0
8.02	2	74	0	0	0
8.06	1	52	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
15.11	1	50	0	0	0
16.02	2	74	0	0	0
16.06	1	52	0	0	0
16.1	1	50	0	0	0
2.01	1	36	0	0	0
2.05	1	50	0	0	0
2.09	2	70	0	0	0
2.13	2	71	0	0	0
3.04	1	50	0	0	0
3.08	2	69	0	0	0
3.12	2	71	0	0	0
4.03	1	50	0	0	0
4.07	2	71	0	0	0
4.11	1	50	0	0	0
5.02	2	74	0	0	0
5.06	1	52	0	0	0
5.1	1	50	0	0	0
6.01	1	37	0	0	0
6.05	1	50	0	0	0
6.09	2	70	0	0	0
6.13	2	71	0	0	0
7.04	1	50	0	0	0
7.08	2	69	0	0	0
7.12	2	71	0	0	0
8.03	1	50	0	0	0
8.07	2	71	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
8.08	2	69	0	0	0
8.12	2	71	0	0	0
9.03	1	50	0	0	0
9.07	2	71	0	0	0
9.11	1	50	0	0	0
GF.02	1	44	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
8.09	2	70	0	0	0
8.13	2	71	0	0	0
9.04	1	50	0	0	0
9.08	2	69	0	0	0
9.12	2	71	0	0	0
GF.03	1	42	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
8.1	1	50	0	0	0
9.01	1	37	0	0	0
9.05	1	50	0	0	0
9.09	2	70	0	0	0
9.13	2	71	0	0	0
GF.04	1	51	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
8.11	1	50	0	0	0
9.02	2	74	0	0	0
9.06	1	52	0	0	0
9.1	1	50	0	0	0
GF.01	2	75	0	0	0

Residential flat buildings - C4.1 Market & Social, 308 dwellings, 24 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
M1001	3	93.4	0	0	0
M1005	2	78.6	0	0	0
M104	1	50.3	0	0	0
M1102	2	79.4	0	0	0
M1201	3	93.4	0	0	0
M1205	2	78.6	0	0	0
M1304	1	49.8	0	0	0
M1403	1	50.4	0	0	0
M1502	2	79.4	0	0	0
M1601	3	93.4	0	0	0
M1605	2	78.6	0	0	0
M1704	1	49.8	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
M1002	2	79.4	0	0	0
M101	1	49.8	0	0	0
M105	1	59.9	0	0	0
M1103	1	50.4	0	0	0
M1202	2	79.4	0	0	0
M1301	3	93.4	0	0	0
M1305	2	78.6	0	0	0
M1404	1	49.8	0	0	0
M1503	1	50.4	0	0	0
M1602	2	79.4	0	0	0
M1701	3	93.4	0	0	0
M1705	2	78.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
M1003	1	50.4	0	0	0
M102	1	40.5	0	0	0
M106	2	74	0	0	0
M1104	1	49.8	0	0	0
M1203	1	50.4	0	0	0
M1302	2	79.4	0	0	0
M1401	3	93.4	0	0	0
M1405	2	78.6	0	0	0
M1504	1	49.8	0	0	0
M1603	1	50.4	0	0	0
M1702	2	79.4	0	0	0
M1801	3	93.4	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
M1004	1	49.8	0	0	0
M103	1	37	0	0	0
M1101	3	93.4	0	0	0
M1105	2	78.6	0	0	0
M1204	1	49.8	0	0	0
M1303	1	50.4	0	0	0
M1402	2	79.4	0	0	0
M1501	3	93.4	0	0	0
M1505	2	78.6	0	0	0
M1604	1	49.8	0	0	0
M1703	1	50.4	0	0	0
M1802	2	79.4	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
M1803	1	50.4	0	0	0
M1902	1	50.4	0	0	0
M2003	2	75.9	0	0	0
M204	1	50.3	0	0	0
M2102	1	50.4	0	0	0
M2203	2	75.9	0	0	0
M301	2	79.3	0	0	0
M305	2	77.3	0	0	0
M403	1	50.4	0	0	0
M502	2	79.4	0	0	0
M601	3	93.4	0	0	0
M605	2	78.6	0	0	0
M704	1	49.8	0	0	0
M803	1	50.4	0	0	0
M902	2	79.4	0	0	0
MGF01	1	38.6	0	0	0
MGF05	1	57.3	0	0	0
S1004	1	49.6	0	0	0
S1008	1	51.6	0	0	0
S104	1	49.6	0	0	0
S108	1	56.8	0	0	0
S1103	1	49.9	0	0	0
S1107	1	51.6	0	0	0
S1203	1	49.9	0	0	0
S1207	1	51.6	0	0	0
S1303	1	49.9	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
M1804	1	49.8	0	0	0
M1903	2	75.9	0	0	0
M201	2	79.3	0	0	0
M205	2	77.3	0	0	0
M2103	2	75.9	0	0	0
M2301	2	79.4	0	0	0
M302	1	40.5	0	0	0
M306	2	75	0	0	0
M404	1	49.8	0	0	0
M503	1	50.4	0	0	0
M602	2	79.4	0	0	0
M701	3	93.4	0	0	0
M705	2	78.6	0	0	0
M804	1	49.8	0	0	0
M903	1	50.4	0	0	0
MGF02	1	40.5	0	0	0
S1001	2	68.3	0	0	0
S1005	1	50.9	0	0	0
S101	2	71.3	0	0	0
S105	1	51.4	0	0	0
S109	1	56.4	0	0	0
S1104	1	49.6	0	0	0
S1108	1	51.6	0	0	0
S1204	1	49.6	0	0	0
S1208	1	51.6	0	0	0
S1304	1	49.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
M1805	2	78.6	0	0	0
M2001	2	79.4	0	0	0
M202	1	40.5	0	0	0
M206	2	75	0	0	0
M2201	2	79.4	0	0	0
M2302	1	50.4	0	0	0
M303	1	37	0	0	0
M401	3	93.4	0	0	0
M405	2	78.6	0	0	0
M504	1	49.8	0	0	0
M603	1	50.4	0	0	0
M702	2	79.4	0	0	0
M801	3	93.4	0	0	0
M805	2	78.6	0	0	0
M904	1	49.8	0	0	0
MGF03	1	37	0	0	0
S1002	2	70.9	0	0	0
S1006	2	70.2	0	0	0
S102	2	72.9	0	0	0
S106	2	70.2	0	0	0
S1101	2	68.3	0	0	0
S1105	1	50.9	0	0	0
S1201	2	68.3	0	0	0
S1205	1	50.9	0	0	0
S1301	2	68.3	0	0	0
S1305	1	50.9	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
M1901	2	79.4	0	0	0
M2002	1	50.4	0	0	0
M203	1	37	0	0	0
M2101	2	79.4	0	0	0
M2202	1	50.4	0	0	0
M2303	2	75.9	0	0	0
M304	1	50.3	0	0	0
M402	2	79.4	0	0	0
M501	3	93.4	0	0	0
M505	2	78.6	0	0	0
M604	1	49.8	0	0	0
M703	1	50.4	0	0	0
M802	2	79.4	0	0	0
M901	3	93.4	0	0	0
M905	2	78.6	0	0	0
MGF04	1	50.3	0	0	0
S1003	1	49.9	0	0	0
S1007	1	51.6	0	0	0
S103	1	49.9	0	0	0
S107	2	71.1	0	0	0
S1102	2	70.9	0	0	0
S1106	2	70.2	0	0	0
S1202	2	70.9	0	0	0
S1206	2	70.2	0	0	0
S1302	2	70.9	0	0	0
S1306	2	70.2	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
S1307	1	51.6	0	0	0
S1403	1	49.9	0	0	0
S1407	1	51.6	0	0	0
S1503	1	49.9	0	0	0
S1507	1	51.6	0	0	0
S1603	1	49.9	0	0	0
S1607	1	51.6	0	0	0
S1703	1	49.9	0	0	0
S1707	1	51.6	0	0	0
S1803	1	49.9	0	0	0
S1807	1	51.6	0	0	0
S1903	1	49.9	0	0	0
S1907	1	51.6	0	0	0
S2003	1	49.9	0	0	0
S2007	1	51.6	0	0	0
S203	1	49.9	0	0	0
S207	2	71.1	0	0	0
S2102	2	70.9	0	0	0
S2106	2	70.2	0	0	0
S2202	2	70.9	0	0	0
S2206	2	70.2	0	0	0
S2304	1	49.6	0	0	0
S302	2	72.9	0	0	0
S306	2	70.2	0	0	0
S401	2	68.2	0	0	0
S405	1	50.9	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
S1308	1	51.6	0	0	0
S1404	1	49.6	0	0	0
S1408	1	51.6	0	0	0
S1504	1	49.6	0	0	0
S1508	1	51.6	0	0	0
S1604	1	49.6	0	0	0
S1608	1	51.6	0	0	0
S1704	1	49.6	0	0	0
S1708	1	51.6	0	0	0
S1804	1	49.6	0	0	0
S1808	1	51.6	0	0	0
S1904	1	49.6	0	0	0
S1908	1	51.6	0	0	0
S2004	1	49.6	0	0	0
S2008	1	51.6	0	0	0
S204	1	49.6	0	0	0
S208	1	56.8	0	0	0
S2103	1	49.9	0	0	0
S2107	1	51.6	0	0	0
S2203	1	49.9	0	0	0
S2301	2	68.3	0	0	0
S2305	1	50.9	0	0	0
S303	1	49.9	0	0	0
S307	2	71.1	0	0	0
S402	2	70.9	0	0	0
S406	2	70.2	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
S1401	2	68.3	0	0	0
S1405	1	50.9	0	0	0
S1501	2	68.3	0	0	0
S1505	1	50.9	0	0	0
S1601	2	68.3	0	0	0
S1605	1	50.9	0	0	0
S1701	2	68.3	0	0	0
S1705	1	50.9	0	0	0
S1801	2	68.3	0	0	0
S1805	1	50.9	0	0	0
S1901	2	68.3	0	0	0
S1905	1	50.9	0	0	0
S2001	2	68.3	0	0	0
S2005	1	50.9	0	0	0
S201	2	71.3	0	0	0
S205	1	51.2	0	0	0
S209	1	57.1	0	0	0
S2104	1	49.6	0	0	0
S2108	1	51.6	0	0	0
S2204	1	49.6	0	0	0
S2302	2	70.9	0	0	0
S2306	2	70.2	0	0	0
S304	1	49.6	0	0	0
S308	1	56.8	0	0	0
S403	1	49.9	0	0	0
S407	1	51.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
S1402	2	70.9	0	0	0
S1406	2	70.2	0	0	0
S1502	2	70.9	0	0	0
S1506	2	70.2	0	0	0
S1602	2	70.9	0	0	0
S1606	2	70.2	0	0	0
S1702	2	70.9	0	0	0
S1706	2	70.2	0	0	0
S1802	2	70.9	0	0	0
S1806	2	70.2	0	0	0
S1902	2	70.9	0	0	0
S1906	2	70.2	0	0	0
S2002	2	70.9	0	0	0
S2006	2	70.2	0	0	0
S202	2	72.9	0	0	0
S206	2	70.2	0	0	0
S2101	2	68.3	0	0	0
S2105	1	50.9	0	0	0
S2201	2	68.3	0	0	0
S2205	1	50.9	0	0	0
S2303	1	49.9	0	0	0
S301	2	71.3	0	0	0
S305	1	51.2	0	0	0
S309	1	57	0	0	0
S404	1	49.6	0	0	0
S408	1	51.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
S501	2	68.3	0	0	0
S505	1	50.9	0	0	0
S601	2	68.3	0	0	0
S605	1	50.9	0	0	0
S701	2	68.3	0	0	0
S705	1	50.9	0	0	0
S801	2	68.3	0	0	0
S805	1	50.9	0	0	0
S901	2	68.3	0	0	0
S905	1	50.9	0	0	0
SGF01	2	71.2	0	0	0
SGF05	2	70.1	0	0	0
TH.02	4+	141.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
S502	2	71	0	0	0
S506	2	70.2	0	0	0
S602	2	71	0	0	0
S606	2	70.2	0	0	0
S702	2	70.9	0	0	0
S706	2	70.2	0	0	0
S802	2	70.9	0	0	0
S806	2	70.2	0	0	0
S902	2	70.9	0	0	0
S906	2	70.2	0	0	0
SGF02	2	70.2	0	0	0
SGF06	1	62.1	0	0	0
TH.03	4+	141.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
S503	1	49.9	0	0	0
S507	1	51.6	0	0	0
S603	1	49.9	0	0	0
S607	1	51.6	0	0	0
S703	1	49.9	0	0	0
S707	1	51.6	0	0	0
S803	1	49.9	0	0	0
S807	1	51.6	0	0	0
S903	1	49.9	0	0	0
S907	1	51.6	0	0	0
SGF03	1	49.6	0	0	0
SGF07	2	81.9	0	0	0
TH.04	4+	141.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
S504	1	49.6	0	0	0
S508	1	51.6	0	0	0
S604	1	49.6	0	0	0
S608	1	51.6	0	0	0
S704	1	49.6	0	0	0
S708	1	51.6	0	0	0
S804	1	49.6	0	0	0
S808	1	51.6	0	0	0
S904	1	49.6	0	0	0
S908	1	51.6	0	0	0
SGF04	1	51.4	0	0	0
TH.01	4+	141.6	0	0	0
TH.05	4+	141.6	0	0	0

Description of project

The tables below describe the dwellings and common areas within the project

Common areas of the development (non-building specific)

Common area	Floor area (m ²)
Car park area	11005
Plant / service rooms	345
Basement lift lobbies	75

Common area	Floor area (m ²)
Waste rooms	533
Ground floor lobbies, hallways and mail	240
Hallways - Level 1 and above	3290

Common area	Floor area (m ²)
Community Housing Provider Office	320
Bicycle storage	40

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - C4.2 Social

(a) Dwellings

- (i) Water
- (ii) Energy
- (iii) Thermal Comfort

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

2. Commitments for Residential flat buildings - C4.1 Market & Social

(a) Dwellings

- (i) Water
- (ii) Energy
- (iii) Thermal Comfort

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

3. Commitments for single dwelling houses

4. Commitments for multi-dwelling houses

5. Commitments for common areas and central systems/facilities for the development (non-building specific)

(a) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

1. Commitments for Residential flat buildings - C4.2 Social

(a) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✓	✓	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✓	✓
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✓	✓
(e) The applicant must install: (aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and (bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		✓ ✓	✓ ✓
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	✓	✓	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		✓	
(g) The pool or spa must be located as specified in the table.	✓	✓	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	✓	✓	✓

Dwelling no.	Fixtures					Appliances		Individual pool				Individual spa		
	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 6 but <= 7.5 L/min)	4 star	6 star	6 star	-	not specified	not specified	-	-	-	-	-	-	-

Dwelling no.	Alternative water source								
	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up	
All dwellings	No alternative water supply	-	-	-	-	-	-	-	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✔	✔	✔
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✔	✔
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✔	✔
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✔	✔
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✔	✔	✔

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below; (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓ ✓ ✓	✓
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 1)	individual fan, ducted to façade or roof	interlocked to light	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
1.03, 1.09, 1.12, 10.02, 10.07, 10.08, 10.09,	1-phase airconditioning / EER 2.5 - 3.0	no individual system	1-phase airconditioning / EER 3.0 - 3.5	no individual system	2(dedicated)	2(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting					Natural lighting		
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
10.12,												
10.13,												
11.02,												
11.07,												
11.08,												
11.09,												
11.12,												
11.13,												
12.02,												
12.07,												
12.08,												
12.09,												
12.12,												
12.13,												
13.02,												
13.07,												
13.08,												
13.09,												
13.12,												
13.13,												
14.02,												
14.07,												
14.08,												
14.09,												
14.12,												
14.13,												
15.02,												
15.07,												
15.08,												
15.09,												
15.12,												
15.13,												
16.02,												
16.07,												
16.08,												
16.09,												
16.12,												
16.13,												
2.02,												

Dwelling no.	Cooling		Heating		Artificial lighting					Natural lighting		
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
2.07,												
2.08,												
2.09,												
2.12,												
2.13,												
3.02,												
3.07,												
3.08,												
3.09,												
3.12,												
3.13,												
4.02,												
4.07,												
4.08,												
4.09,												
4.12,												
4.13,												
5.02,												
5.07,												
5.08,												
5.09,												
5.12,												
5.13,												
6.02,												
6.07,												
6.08,												
6.09,												
6.12,												
6.13,												
7.02,												
7.07,												
7.08,												
7.09,												
7.12,												
7.13,												
8.02,												
8.07,												
8.08,												
8.09,												

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
8.12, 8.13, 9.02, 9.07, 9.08, 9.09, 9.12, 9.13, GF.01												
All other dwellings	1-phase airconditioning / EER 2.5 - 3.0	no individual system	1-phase airconditioning / EER 3.0 - 3.5	no individual system	1(dedicated)	2(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	electric cooktop & electric oven	not specified	no	not specified	not specified	not specified	yes	no

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.	✔		
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.		✔	
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✔	✔
(g) Where there is an in-slab heating or cooling system, the applicant must: (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✔	✔	✔
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✔	✔	✔
(i) The applicant must show on the plans accompanying the development application for the proposed development, the locations of ceiling fans set out in the Assessor Certificate.	✔		
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		✔	

	Thermal loads	
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)
1.01	39.2	8.7
1.02	20.7	14.8
1.04	41.4	11.8
1.05	16.4	18.3
1.06	17.8	18.2
1.07	18.8	28
1.08	30.2	13.7
1.09	30.3	26.4
1.1	32.8	2.3
1.11	35.8	9.5

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
1.12	32.2	7.3
10.01	23.3	16.5
10.02	21.4	5.6
10.03	27.3	10.4
10.04	32.4	20.5
10.05	35.8	7.8
10.06	28.4	8.5
10.07	25.4	9.9
10.08	41.6	9.8
10.09	20.9	13.1
10.1	30.2	11.3
10.11	36.4	13.3
10.12	19.7	5.5
10.13	26.1	4.5
11.01	24	13.3
11.02	22	5
11.03	28.2	10.1
11.04	38	15.7
11.05	37.6	6.5
11.06	31.8	7.2
11.07	30.4	8.4
11.08	45.3	7.7
11.09	22.6	11.6
11.1	31.6	10.6
11.11	37	13
11.12	20.1	4.8
11.13	27.5	4.2
12.01	24	13.4
12.02	21.3	5
12.03	27.2	10.4
12.04	31.6	19.9

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
12.05	34.7	7.4
12.06	25.8	8.2
12.07	27.6	9.1
12.08	43.7	8.6
12.09	22.8	11.3
12.1	30.9	10.7
12.11	37.3	13
12.12	19.4	5
12.13	27.7	4.1
13.01	24.2	13.4
13.02	19.7	5.2
13.03	26.2	10.2
13.04	37.4	18.2
13.05	34	6.5
13.06	26.6	7.5
13.08	44.5	7.9
13.09	22.9	11.1
13.1	29.4	10.9
13.11	34.6	12.7
13.12	17.8	5.4
13.13	27.7	4.2
14.01	23.9	13.3
14.02	18.5	5.5
14.03	24.6	10.7
14.04	29.2	20.8
14.05	28.1	7.8
14.06	18.4	8.4
14.07	27.9	9.2
14.08	44	9
14.09	23	11
14.1	27.2	11.3

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
14.11	33.1	13.2
14.12	16.7	5.7
14.13	27.8	4.3
15.01	24.2	13
15.02	16.6	5.5
15.03	22.2	11
15.04	34.1	19.3
15.05	26.9	6.9
15.06	18.7	8
15.07	31.1	8.4
15.08	44.5	8
15.09	23.1	11.1
15.1	24.8	11.4
15.11	31.2	13.3
15.12	15.3	5.6
15.13	27.7	4.5
16.01	35.6	10.7
16.02	28	4.4
16.03	27.2	8.6
16.04	33.5	18.1
16.05	32.7	6
16.06	13.3	7.1
16.07	43.4	6.5
16.08	45.4	5.3
16.09	31.7	8.1
16.1	31	9.6
16.11	33.4	14.4
16.12	26.1	4.3
16.13	40.8	3.1
2.01	19.5	23.7
2.02	17.6	7.8

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
2.03	23.8	11.1
2.04	29.1	16.6
2.05	33	9
2.06	28.7	10.1
2.07	18.1	10.4
2.08	43.4	10.3
2.09	15.6	13.8
2.1	30.3	12.4
2.11	34.6	11.3
2.12	17.7	7.7
2.13	38.1	6
3.01	18.6	23.2
3.02	17.8	7.7
3.03	22.8	11
3.04	30.1	15.5
3.05	32	8.2
3.06	28.5	9.2
3.07	21.4	9.3
3.08	42.8	11.5
3.09	16.3	22.1
3.1	26.6	12.9
3.11	34	13.2
3.12	16.4	7.4
3.13	20.9	6.7
4.01	21.4	19
4.02	20.4	5.9
4.03	26.6	9.4
4.04	34.5	13.2
4.05	34.8	7.1
4.06	30.1	8.6
4.07	23.4	10.5

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
4.08	39.2	10.2
4.09	18.80	15.7
4.1	30.5	9.9
4.11	38.2	11
4.12	18.8	6.1
4.13	24	4.8
5.01	21.7	18.6
5.02	20.8	5.9
5.03	26.9	9.6
5.04	35.1	13.3
5.05	36.1	6.4
5.06	32.8	7.9
5.07	26.7	9.1
5.08	41.6	8.7
5.09	19.4	15.1
5.1	30.9	9.9
5.11	38.7	10.7
5.12	19.2	6.4
5.13	24.6	4.7
6.01	22.1	18.3
6.02	21	5.7
6.03	27.4	9.8
6.04	34.6	16.4
6.05	35.7	7
6.06	30.6	9
6.07	24.4	10.2
6.08	40.2	9.7
6.09	19.8	14.7
6.1	31.20	10
6.11	39	11.1
6.12	19.5	6.2

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
6.13	25	4.6
7.01	22.7	17.4
7.02	21.3	5.3
7.03	27.6	10.2
7.04	35.9	14
7.05	36.7	6.6
7.06	33.2	8.2
7.07	27.9	9
7.08	42.5	8.4
7.09	20.2	14.1
7.1	31.1	10.4
7.11	38.8	12.4
7.12	19.7	6.1
7.13	25.3	4.6
8.01	22.9	16.8
8.02	21.4	5.4
8.03	27.7	10.1
8.04	34.8	18.7
8.05	36.3	7.1
8.06	30.3	9
8.07	25.2	9.9
8.08	40.9	9.6
8.09	20.3	13.7
8.1	30.8	10.5
8.11	38.5	12.4
8.12	19.9	5.8
8.13	25.6	4.7
9.01	23.1	16.9
9.02	21.5	5.5
9.03	27.7	9.9
9.04	36	15.6

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
9.05	37	6.5
9.06	32.6	7.8
9.07	28.1	8.9
9.08	43.2	8.7
9.09	20.6	13.6
9.1	30.6	10.5
9.11	37.9	12.7
9.12	19.9	5.6
9.13	25.9	4.5
GF.01	33.4	9
GF.02	26.2	13.9
GF.03	42.2	11.2
GF.04	27.3	24.1
All other dwellings	30.8	8.2

(b) Common areas and central systems/facilities

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		✓	✓
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	✓	✓	✓
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	✓	✓	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		✓	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		✓	✓
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		✓	✓

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	no common facility	no common facility	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Fire sprinkler system (No. 1)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		✓	✓
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	✓	✓	✓

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS
Lift car (No. 1)	-	-	light-emitting diode	connected to lift call button	yes
Lift car (No. 2)	-	-	light-emitting diode	connected to lift call button	yes
Lift car (No. 3)	-	-	light-emitting diode	connected to lift call button	yes
Lift car (No. 4)	-	-	light-emitting diode	connected to lift call button	yes

Central energy systems	Type	Specification
Lift (No. 1)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 19
Lift (No. 2)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 19
Lift (No. 3)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 19
Lift (No. 4)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 19
Central hot water system (No. 1)	electric heat pump – air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)

2. Commitments for Residential flat buildings - C4.1 Market & Social

(a) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✓	✓	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✓	✓
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✓	✓
(e) The applicant must install: <ul style="list-style-type: none"> (aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and (bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling. 		✓ ✓	✓ ✓
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	✓	✓	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		✓	
(g) The pool or spa must be located as specified in the table.	✓	✓	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	✓	✓	✓

Dwelling no.	Fixtures					Appliances		Individual pool				Individual spa		
	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
M1001, M1002, M1003,	4 star (> 6 but <= 7.5 L/min)	4 star	6 star	6 star	-	not specified	3.5 star	-	-	-	-	-	-	-

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
M1004, M1005, M101, M102, M103, M104, M105, M106, M1101, M1102, M1103, M1104, M1105, M1201, M1202, M1203, M1204, M1205, M1301, M1302, M1303, M1304, M1305, M1401, M1402, M1403, M1404, M1405, M1501, M1502, M1503, M1504, M1505, M1601, M1602, M1603, M1604, M1605, M1701,														

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
M1702, M1703, M1704, M1705, M1801, M1802, M1803, M1804, M1805, M1901, M1902, M1903, M2001, M2002, M2003, M201, M202, M203, M204, M205, M206, M2101, M2102, M2103, M2201, M2202, M2203, M2301, M2302, M2303, M301, M302, M303, M304, M305, M306, M401, M402, M403,														

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
M404, M405, M501, M502, M503, M504, M505, M601, M602, M603, M604, M605, M701, M702, M703, M704, M705, M801, M802, M803, M804, M805, M901, M902, M903, M904, M905, MGF01, MGF02, MGF03, MGF04, MGF05, TH.01, TH.02, TH.03, TH.04, TH.05														

Dwelling no.	Fixtures					Appliances		Individual pool				Individual spa		
	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All other dwellings	4 star (> 6 but <= 7.5 L/min)	4 star	6 star	6 star	-	not specified	not specified	-	-	-	-	-	-	-

Dwelling no.	Alternative water source							
	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	No alternative water supply	-	-	-	-	-	-	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✔	✔	✔
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✔	✔
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✔	✔
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✔	✔
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✔	✔	✔

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below; (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓ ✓ ✓	✓
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 2)	individual fan, ducted to façade or roof	interlocked to light	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Artificial lighting						Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
M1001, M1101, M1201, M1301, M1401, M1501, M1601,	1-phase airconditioning / EER 2.5 - 3.0	1-phase airconditioning / EER 2.5 - 3.0	1-phase airconditioning / EER 3.0 - 3.5	1-phase airconditioning / EER 3.0 - 3.5	3(dedicated)	2(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting					Natural lighting		
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/ toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
M1701, M1801, M401, M501, M601, M701, M801, M901												
M1003, M1004, M101, M102, M103, M104, M105, M1103, M1104, M1203, M1204, M1303, M1304, M1403, M1404, M1503, M1504, M1603, M1604, M1703, M1704, M1803, M1804, M1902, M2002, M202, M203, M204, M2102, M2202,	1-phase airconditioning / EER 2.5 - 3.0	1-phase airconditioning / EER 2.5 - 3.0	1-phase airconditioning / EER 3.0 - 3.5	1-phase airconditioning / EER 3.0 - 3.5	1 (dedicated)	2 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting					Natural lighting		
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/ toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
M2302, M302, M303, M304, M403, M404, M503, M504, M603, M604, M703, M704, M803, M804, M903, M904, MGF01, MGF02, MGF03, MGF04, MGF05												
M1002, M1005, M106, M1102, M1105, M1202, M1205, M1302, M1305, M1402, M1405, M1502, M1505, M1602, M1605, M1702, M1705,	1-phase airconditioning / EER 2.5 - 3.0	1-phase airconditioning / EER 2.5 - 3.0	1-phase airconditioning / EER 3.0 - 3.5	1-phase airconditioning / EER 3.0 - 3.5	2(dedicated)	2(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
M1802, M1805, M1901, M1903, M2001, M2003, M201, M205, M206, M2101, M2103, M2201, M2203, M2301, M2303, M301, M305, M306, M402, M405, M502, M505, M602, M605, M702, M705, M802, M805, M902, M905, TH.01, TH.02, TH.03, TH.04, TH.05												
S1001, S1002, S1006,	1-phase airconditioning / EER 2.5 - 3.0	no individual system	1-phase airconditioning / EER 3.0 - 3.5	no individual system	2(dedicated)	2(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	yes(dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting					Natural lighting		
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
S101, S102, S106, S107, S1101, S1102, S1106, S1201, S1202, S1206, S1301, S1302, S1306, S1401, S1402, S1406, S1501, S1502, S1506, S1601, S1602, S1606, S1701, S1702, S1706, S1801, S1802, S1806, S1901, S1902, S1906, S2001, S2002, S2006, S201, S202, S206, S207, S2101,												

Dwelling no.	Cooling		Heating		Artificial lighting					Natural lighting		
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or diningroom	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
S2102, S2106, S2201, S2202, S2206, S2301, S2302, S2306, S301, S302, S306, S307, S401, S402, S406, S501, S502, S506, S601, S602, S606, S701, S702, S706, S801, S802, S806, S901, S902, S906, SGF01, SGF02, SGF05, SGF07												
All other dwellings	1-phase airconditioning / EER 2.5 - 3.0	no individual system	1-phase airconditioning / EER 3.0 - 3.5	no individual system	1 (dedicated)	2 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/ oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
M101, M102, M103, M104, M105, M106, M1304, M1403, M1404, M1405, M1501, M1502, TH.01, TH.02, TH.03, TH.04, TH.05	-	-	-	-	induction cooktop & electric oven	not specified	no	3.5 star	not specified	2 star	no	no
S1505, S1506, S1507, S1508, S1601, S1602, S1603, S2001, S2002, S2003, S2004, S2005, S2006, S2007, S2008, S2101, S2102, S2103, S2104,	-	-	-	-	electric cooktop & electric oven	not specified	no	not specified	not specified	not specified	yes	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/ oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
S2105, S2106, S2107, S2108, S2201, S2202, S2203, S2204												
M1001, M1002, M1003, M1004, M1005, M1101, M1102, M1103, M1104, M1105, M1201, M1202, M1203, M1204, M1205, M1301, M1302, M1303, M1305, M1401, M1402, M1503, M1504, M1505, M1601, M1602, M1603, M1604, M1605,	-	-	-	-	induction cooktop & electric oven	not specified	no	3.5 star	not specified	2 star	no	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/ oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
M1701, M1702, M1703, M1704, M1705, M1801, M1802, M1803, M1804, M1805, M1901, M1902, M1903, M2001, M2002, M2003, M201, M202, M203, M204, M205, M206, M2101, M2102, M2103, M2201, M2202, M2203, M2301, M2302, M2303, M301, M302, M303, M304, M305, M306, M401,												

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/ oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
M402, M403, M404, M405, M501, M502, M503, M504, M505, M601, M602, M603, M604, M605, M701, M702, M703, M704, M705, M801, M802, M803, M804, M805, M901, M902, M903, M904, M905, MGF01, MGF02, MGF03, MGF04, MGF05												
All other dwellings	-	-	-	-	electric cooktop & electric oven	not specified	no	not specified	not specified	not specified	yes	no

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.	✔		
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.		✔	
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✔	✔
(g) Where there is an in-slab heating or cooling system, the applicant must: (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✔	✔	✔
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✔	✔	✔
(i) The applicant must show on the plans accompanying the development application for the proposed development, the locations of ceiling fans set out in the Assessor Certificate.	✔		
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		✔	

Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
M1001	13.9	28.1
M1002	24.5	15.7
M1003	33.2	18.5

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
M1004	37.4	24.5
M1005	12	14
M101	27.4	25.9
M102	9.4	24.5
M103	14.7	20.5
M104	37.6	27.1
M105	29.4	20.5
M106	7.8	18.2
M1101	14.1	28.1
M1102	24.8	15.8
M1103	33.5	18.5
M1104	35.9	25.8
M1105	12	14.1
M1201	14.2	27.8
M1202	24.9	15.7
M1203	33.7	18.2
M1204	33.1	27.3
M1205	11.7	14.6
M1301	14.4	27.6
M1302	25.2	15.7
M1303	34	18.2
M1304	29.8	18.6
M1305	11.6	14.6
M1401	14.7	27.6
M1403	34.9	18.3
M1404	28.2	22.4
M1405	11.5	15.3
M1501	14.6	27
M1502	25.5	15.5
M1503	34.7	17.5
M1504	25.3	23.6

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
M1505	11.9	15.3
M1601	14.6	26.8
M1602	25.5	15.6
M1603	34.8	17.4
M1604	22.3	26.2
M1605	9	16
M1701	14.7	26.4
M1702	25.7	15.5
M1703	35	17.7
M1704	20.8	27.1
M1705	8.3	16.2
M1801	28	24.5
M1803	35.1	17.8
M1804	20.4	28.3
M1805	22.9	21.2
M1901	22.8	15.4
M1902	35.3	17.6
M1903	9.5	15.3
M2001	22.8	15.7
M2002	35.5	17.7
M2003	7.8	15.8
M201	11.6	25.4
M202	10.6	22.9
M203	15.3	19.8
M204	38.4	26.9
M205	29.7	17.5
M206	2.6	20.9
M2101	23	15.6
M2102	35.6	17.5
M2103	7.9	15.8
M2201	23.1	15.5

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
M2202	35.6	17.4
M2203	8	15.2
M2301	38	16
M2302	45.1	15.6
M2303	21.6	18.3
M301	15.5	28.3
M302	4	24.5
M303	10.6	25.8
M304	33.4	25.4
M305	36.2	14.8
M306	3.7	19.8
M401	11.8	26.2
M402	21.2	19
M403	28.6	19.4
M404	34.7	18.4
M405	7.9	15.4
M501	12.1	25.9
M502	22.6	17.5
M503	29.3	19.7
M504	34.7	24.9
M505	8.2	15.2
M601	12.7	25.6
M602	22.2	18.9
M603	30.4	19.4
M604	34.7	16.2
M605	8.9	15.9
M701	12.2	24.8
M702	22	17.2
M703	30.1	20.1
M704	34.5	26.4
M705	8.7	15.2

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
M801	12.4	24.4
M802	22.3	17
M803	30.4	20
M804	34.5	27.2
M805	8.8	15.1
M901	12.6	24.2
M902	22.6	16.8
M903	30.8	19.7
M904	36.1	25.2
M905	10.8	14.7
MGF01	43.4	21.2
MGF02	20.5	22.8
MGF03	28.8	20.3
MGF04	43	15.6
MGF05	38.3	12.8
S1001	23.7	18.9
S1002	15	9.3
S1003	38.1	13
S1004	32.3	8.2
S1005	27.5	16.2
S1006	26.7	21.7
S1007	43.1	9.8
S1008	36.9	7.5
S101	23.1	15.4
S102	23.6	9.8
S103	36.4	13.6
S104	25.9	9.3
S105	32.2	15.6
S106	21.8	15.2
S107	18.7	11.8
S108	17.1	10.1

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
S109	23.1	14.9
S1101	22	18.5
S1102	13.3	9.4
S1103	37.6	14.2
S1104	32.1	8
S1105	27.8	16.1
S1106	26.9	21.4
S1107	43.5	9.6
S1108	37.2	7.6
S1201	21.5	18.4
S1202	11.9	9.5
S1203	36.1	15
S1204	30.8	9.2
S1205	28	15.9
S1206	27.1	21.2
S1207	43.7	9.6
S1208	37.4	7.6
S1301	20.5	18.6
S1302	9.8	9.5
S1303	33.9	15.2
S1304	29.8	9.4
S1305	28.3	15.8
S1306	27.3	21.1
S1307	38.5	9.4
S1308	37.7	7.5
S1401	19.9	19.1
S1402	8.6	9.6
S1403	32.3	16.1
S1404	28.1	10.3
S1405	28.9	15.9
S1406	27.8	20.9

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
S1407	44.6	9.3
S1501	18.6	18.7
S1502	7.1	9.5
S1503	29.2	15.8
S1504	25	10.6
S1505	28.6	15.7
S1506	27.6	20.9
S1507	44.4	9.4
S1508	38	7.6
S1601	17.8	19
S1602	5.7	9.5
S1603	26.6	16.5
S1604	22.5	11.4
S1605	28.7	15.9
S1606	27.6	20.5
S1607	44.5	9.3
S1608	38.1	7.6
S1703	24.4	16.7
S1704	21	10.9
S1705	28.8	15.9
S1706	27.7	20.3
S1707	44.7	9.2
S1802	5.2	9.6
S1803	24.20	16.6
S1804	20.7	11.1
S1805	29	15.5
S1806	27.9	20.5
S1807	44.8	9.2
S1808	38.4	7.6
S1901	17.7	19.3
S1902	5.2	9.7

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
S1903	24.3	16.6
S1904	20	11.7
S1905	29.2	15.5
S1906	27.9	19.9
S1907	45	9.4
S1908	38.6	7.6
S2001	17.8	19.1
S2003	24.4	16.2
S2004	20.3	11.8
S2005	29.2	14.9
S2006	28	20.1
S2007	45.1	9.5
S2008	38.7	7.6
S201	23.7	17.2
S202	23.4	11.6
S203	32.8	13.8
S204	26.7	9.4
S205	31.9	15.8
S206	22.5	17.4
S207	19.1	12
S208	17.5	9.9
S209	23.9	15.6
S2101	17.9	18.9
S2103	24.5	16.3
S2104	20.2	11.5
S2105	29.4	14.7
S2106	27.8	20.2
S2107	44.9	9.5
S2108	45	9.6
S2201	18	18.9
S2202	5.4	9.6

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
S2203	24.6	16.3
S2204	20.2	11.3
S2205	29.5	14.7
S2206	27.2	20.2
S2301	33	25.1
S2302	21	13.2
S2303	40.2	17.5
S2304	36.9	13.6
S2305	44.3	17
S2306	43.4	22.9
S301	29.6	18.8
S302	23.7	12.2
S303	36.2	11.3
S304	28.1	8.1
S305	26.8	17.5
S306	17.7	27.2
S307	17	15.9
S308	13.9	17.4
S309	31.1	26.8
S401	24.8	25
S402	16.3	10.9
S403	35.7	8
S404	30.2	6.6
S405	23.3	20.7
S406	22.9	26.1
S407	38.6	9.5
S408	32.3	9.8
S501	12.6	24.5
S502	16.4	10.6
S503	38.9	11.2
S504	30.4	6.3

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
S505	22.1	22.5
S506	23.4	25.9
S507	39.7	11.5
S508	33.7	10.9
S601	26.6	27
S602	16.7	10.7
S603	39.4	11.3
S604	30.8	6.8
S605	24.7	20.3
S606	24.3	25.3
S607	40.2	11.2
S608	34	9.2
S701	25	21.5
S702	16.1	10.9
S703	38.9	12.6
S704	30.7	7.7
S705	24.8	20.7
S706	24.4	25.3
S707	40.1	10.8
S708	34	8.6
S801	24.3	21.4
S802	15.5	10.7
S803	38.4	12.9
S804	30.7	8.1
S805	25.1	20.3
S806	24.6	24.9
S807	40.4	10.6
S808	34.3	8.6
S901	23	21.2
S902	14.6	10.7
S903	37.3	13.1

Dwelling no.	Thermal loads	
	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)
S904	30.6	9
S905	25.4	19.9
S906	24.9	25.1
S907	40.8	10.2
S908	34.6	8.5
SGF01	38.9	8.5
SGF02	38.7	7.7
SGF03	42.7	7.3
SGF04	38.8	13.3
SGF05	35.2	15.6
SGF06	36.5	5.7
SGF07	39.9	5.5
TH.01	27.4	27.1
TH.02	23.7	26.4
TH.03	22.9	24.4
TH.04	27.9	25.8
TH.05	36.1	26.9
M1402, M1802	25.7	15.7
S1408, S1708	38.3	7.6
S1701, S1801	17.6	19.1
All other dwellings	5.3	9.6

(b) Common areas and central systems/facilities

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		✓	✓
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	✓	✓	✓
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	✓	✓	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		✓	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		✓	✓
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		✓	✓

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	no common facility	no common facility	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Fire sprinkler system (No. 2)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		✓	✓
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	✓	✓	✓

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS
Lift car (No. 8)	-	-	light-emitting diode	connected to lift call button	yes
Lift car (No. 5)	-	-	light-emitting diode	connected to lift call button	yes
Lift car (No. 6)	-	-	light-emitting diode	connected to lift call button	yes
Lift car (No. 7)	-	-	light-emitting diode	connected to lift call button	yes

Central energy systems	Type	Specification
Lift (No. 5)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 26
Lift (No. 6)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 26
Lift (No. 7)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 26
Lift (No. 8)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 26
Central hot water system (No. 2)	electric heat pump – air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)

5. Commitments for common areas and central systems/facilities for the development (non-building specific)

(a) Common areas and central systems/facilities

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		✓	✓
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	✓	✓	✓
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	✓	✓	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		✓	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		✓	✓
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		✓	✓

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	no common facility	no common facility	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Central water tank - rainwater or stormwater (No. 1)	20000.00	To collect run-off from at least: - 800.00 square metres of roof area of buildings in the development - 0.00 square metres of impervious area in the development - 0.00 square metres of garden/lawn area in the development - 0.00 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system).	- irrigation of 1800.00 square metres of common landscaped area on the site - car washing in 0 car washing bays on the site
Fire sprinkler system (No. 3)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		✓	✓
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	✓	✓	✓

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS
Car park area	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	zoned switching with motion sensor	yes
Waste rooms	ventilation exhaust only	-	light-emitting diode	motion sensors	yes
Community Housing Provider Office	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	yes
Plant / service rooms	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	yes
Ground floor lobbies, hallways and mail	no mechanical ventilation	-	light-emitting diode	none	yes
Bicycle storage	ventilation supply only	time clock or BMS controlled	light-emitting diode	manual on / manual off	yes
Basement lift lobbies	ventilation supply only	time clock or BMS controlled	light-emitting diode	none	yes
Hallways - Level 1 and above	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	yes

Central energy systems	Type	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 110 peak kW
Other	Building management system installed?: yes Active power factor correction installed?: yes	-

Notes

1. In these commitments, "applicant" means the person carrying out the development.
2. The applicant must identify each dwelling, building and common area listed in this certificate, on the plans accompanying any development application, and on the plans and specifications accompanying the application for a construction certificate / complying development certificate, for the proposed development, using the same identifying letter or reference as is given to that dwelling, building or common area in this certificate.
3. This note applies if the proposed development involves the erection of a building for both residential and non-residential purposes (or the change of use of a building for both residential and non-residential purposes). Commitments in this certificate which are specified to apply to a "common area" of a building or the development, apply only to that part of the building or development to be used for residential purposes.
4. If this certificate lists a central system as a commitment for a dwelling or building, and that system will also service any other dwelling or building within the development, then that system need only be installed once (even if it is separately listed as a commitment for that other dwelling or building).
5. If a star or other rating is specified in a commitment, this is a minimum rating.
6. All alternative water systems to be installed under these commitments (if any), must be installed in accordance with the requirements of all applicable regulatory authorities. NOTE: NSW Health does not recommend that stormwater, recycled water or private dam water be used to irrigate edible plants which are consumed raw, or that rainwater be used for human consumption in areas with potable water supply.

Legend

1. Commitments identified with a "✔" in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).
2. Commitments identified with a "✔" in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.
3. Commitments identified with a "✔" in the "Certifier check" column must be certified by a certifying authority as having been fulfilled. (Note: a certifying authority must not issue an occupation certificate (either interim or final) for a building listed in this certificate, or for any part of such a building, unless it is satisfied that each of the commitments whose fulfilment it is required to monitor in relation to the building or part, has been fulfilled).