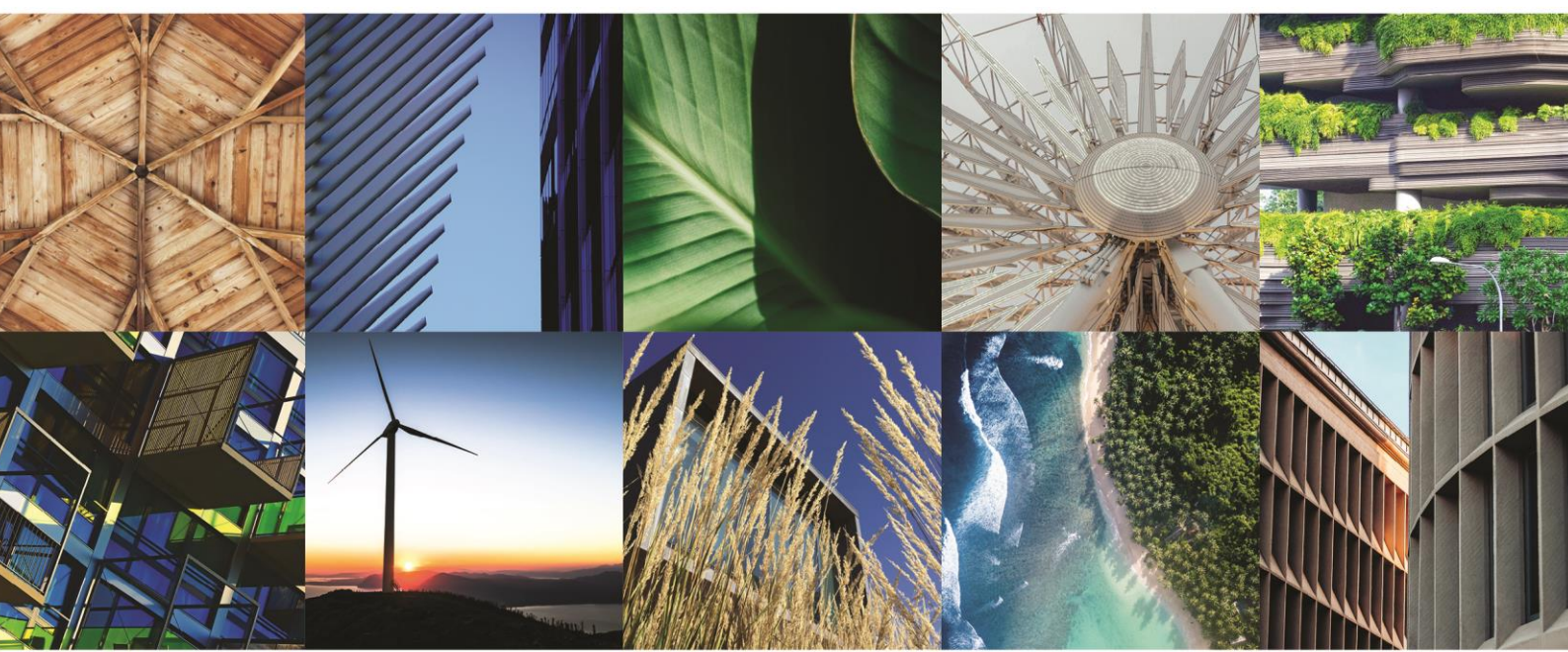




Crescent Parklands

SSD-70283710: 1 Crescent Street, Holroyd NSW 2142

Issue	File Ref	Description	Author	Date
A	2401051	DRAFT: Base building specifications issued for review	HE/CC/SS	03/09/2024
B	2401051	NatHERS and BASIX Certificate	HE/MF/AR/SC/CC/SS/JF	06/11/2024
C	2401250	Update Building 1 Units 703, 704 and 805	HE/SC	22/11/2024

This report has been prepared by Efficient Living Pty Ltd on behalf of our client Australian Capital Equity. 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.



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License Holder: Haylea Edwards
Accreditation Number: HERA10213

Prepared For:

Tiberius (Holroyd) Pty Ltd (ABN 61 061 131 959) atf the Holroyd Unit Trust (ABN 42 891 308 354).

Introduction

This NatHERS and BASIX certificate report has been prepared by Efficient Living Pty Ltd to accompany a State Significant Development Application (SSDA) for a proposed mixed-use precinct located at 1 Crescent Street, Holroyd (the site).

This report has also been prepared to address the relevant Secretary's Environmental Assessment Requirements (SEARs) issued by the Department of Planning, Housing, and Infrastructure (DPHI) for SSD-70283710 on 6 May 2024. This report satisfies the BASIX certificate documentation requirement 9. Ecologically Sustainable Development (ESD).

Efficient Living has investigated the estimated thermal comfort, water and energy usage of the proposed development to be built at 1 Crescent Street, Holroyd NSW 2142.

This report is based on the architectural drawings prepared by Woods Bagot received on 22/11/2024. Referenced plans

DA-0-1101-B	DA-1-2207-B	DA-1-3223-B	DA-2-2210-B	DA-3-2200-B	DA-3-3261-B
DA-0-1102-B	DA-1-2210-B	DA-1-3231-B	DA-2-2213-B	DA-3-2201-B	DA-3-3262-B
DA-0-1103-B	DA-1-2224-B	DA-1-3232-B	DA-2-2218-B	DA-3-2202-B	DA-3-3263-B
DA-0-1104-B	DA-1-2233-B	DA-1-3233-B	DA-2-2219-B	DA-3-2203-B	DA-3-3271-B
DA-1-22LG-B	DA-1-2234-B	DA-2-22LG-B	DA-2-2220-B	DA-3-2204-B	DA-3-3272-B
DA-1-2200-B	DA-1-2235-B	DA-2-2200-B	DA-2-3241-B	DA-3-2205-B	DA-3-3273-B
DA-1-2201-B	DA-1-2236-B	DA-2-2201-B	DA-2-3242-B	DA-3-2206-B	
DA-1-2202-B	DA-1-3211-B	DA-2-2202-B	DA-2-3243-B	DA-3-2210-B	
DA-1-2203-B	DA-1-3212-B	DA-2-2203-B	DA-2-3251-B	DA-3-2213-B	
DA-1-2204-B	DA-1-3215-B	DA-2-2204-B	DA-2-3252-B	DA-3-2220-B	
DA-1-2205-B	DA-1-3221-B	DA-2-2205-B	DA-2-3253-B	DA-3-2221-B	
DA-1-2206-B	DA-1-3222-B	DA-2-2206-B	DA-3-22LG-B	DA-3-2222-B	

For further details refer to the individual BASIX Certificate(s) and Efficient Living's inclusions summary respectively.

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 minimum 7-star building average for thermal comfort and a minimum required target of 60% for the energy section.

Each unit has individual heating, cooling and total loads applied resulting in a minimum rating of 6.0 stars. In addition, the building has an average heating, cooling and total load which results in the minimum compliance measure of 7.0 stars.

Materials data is required to be collected for the Department of Planning. No compliance measures are currently in place.

Inclusions summary

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

As this development proposal is in the early stages default modelling assumptions have been included where information and inclusions have not yet been determined. A NatHERS update will be required during the Construction Certificate phase to implement the final design and selected building inclusions.

Note: Due to limitations in the BASIX tool Building 3 has been separated from Phase 1. BASIX certificates 1771808M and 1771734M are to be read in conjunction with each other.

Glazing doors and windows

Base specification

Group A – awning + bifold + casement windows + hinged glazed doors

U-value: 4.10 (equal to or lower than) SHGC: 0.47 (±5%)

Group B – sliding doors/windows + fixed glazing + louvred windows

U-value: 4.10 (equal to or lower than) SHGC: 0.52 (±5%)

Glazing upgrades applied as per the results table

Glazing upgrade 1

Group A – awning + bifold + casement windows + hinged glazed doors

U-value: 3.20 (equal to or lower than) SHGC: 0.46 (±5%)

Group B – sliding doors/windows + fixed glazing + louvred windows

U-value: 3.20 (equal to or lower than) SHGC: 0.49 (±5%)

Glazing upgrade 2

Group A – awning + bifold + casement windows + hinged glazed doors

U-value: 2.60 (equal to or lower than) SHGC: 0.50 (±5%)

Group B – sliding doors/windows + fixed glazing + louvred windows

U-value: 2.60 (equal to or lower than) SHGC: 0.53 (±5%)

Glazing upgrade 3

Group A – awning + bifold + casement windows + hinged glazed doors

U-value: 2.20 (equal to or lower than) SHGC: 0.32 (±5%)

Group B – sliding doors/windows + fixed glazing + louvred windows

U-value: 2.20 (equal to or lower than) SHGC: 0.39 (±5%)

Glazing upgrade 4

Awning - U-value: 2.24 (equal to or lower than) SHGC: 0.506 (±5%)

Sliding - U-value: 2.027 (equal to or lower than) SHGC: 0.485 (±5%)

Fixed - U-value: 2.202 (equal to or lower than) SHGC: 0.505 (±5%)

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

Window frame colour

Default colour modelled

Roof and ceiling

200mm Concrete plasterboard ceiling with R2.0 insulation (insulation only value) to the concrete soffit where balconies are above

200mm Concrete plasterboard ceiling with R3.5 insulation (insulation only value) to the concrete soffit where the roof is over

200mm Concrete plasterboard ceiling, no insulation where neighboring units are above

R4.0 ceiling insulation as per results table

External Colour

Light (SA < 0.475)

Ceiling penetrations

Sealed LED downlights at a maximum of one every 2.5m²

Ceiling fans

900mm ceiling fans in all bedrooms and living area

External wall

Spandrel panel on metal frame with R2.0 insulation and plasterboard lined (insulation only value)

Framed structure with lightweight cladding including terracotta, aluminium and brick click on metal frame with R2.0 insulation and plasterboard lined (insulation only value)

150mm concrete metal frame with R2.0 insulation and plasterboard lined (insulation only value)

R2.5 insulation upgrade as per results table

Any concrete columns within the external wall envelope are assumed to have the same R2.0 insulation

Note: NatHERS default steel frames have been applied

External Colour

Default colour modelled

Inter-tenancy walls

75mm Hebel Power Panel party wall, with R1.5 insulation to one side and plasterboard lined to common halls and neighbours.

Minimum 150mm concrete metal frame with R1.5 insulation to one side and plasterboard lined to carpark and service rooms

Minimum 150mm concrete with furring channel and plasterboard lining to all walls adjacent to lift shafts and fire stairs. No insulation required

Walls within dwellings

Plasterboard on studs – no insulation required

Floors

200mm Concrete with a minimum R2.0 insulation (insulation only value) is required where the carpark is below
200mm Concrete with a minimum R2.0 insulation where part open subfloor
200mm Concrete between levels, no insulation required

Floor coverings

Carpet to bedrooms, tiles to bathrooms and laundry, timber elsewhere

External shading

Shading as per stamped documentation

BASIX water inclusions

Score 40/40

Fixtures within units

Showerheads: 4 star low flow (>6L but ≤7.5L/min)

Toilets: 4.0 star

Kitchen taps: 5.0 star

Bathroom vanity taps: 5.0 star

Fixtures within common areas

Toilets: 4.0 star

Taps: 5.0 star

Appliances within units

Dishwashers: 4 stars

Central rainwater storage

Phase 1 – Tank size: 10000 L Building 1-2, no BASIX requirements for Building 3 (refer to note regarding splitting BASIX for phase 1)

Collecting from 50% of the roof area (1220 m²).

Connected to outdoor tap for irrigation of common area landscaping, 1 car wash bay and private landscaping

Phase 2 – Tank size: 5000 L

Collecting from 50% of the roof area (985 m²).

Connected to outdoor tap for irrigation of common area landscaping, 1 car wash bay and private landscaping

Phase 3 – Tank size: no BASIX requirements

Fire sprinkler test water

Basement sprinkler systems: Test water must be contained in a closed loop system (tank required).

Apartment levels sprinkler systems: Test water must be contained in a closed loop system (tank required).

Indigenous and low water use species

70% of common area planting to be indigenous or low water use species

Common area swimming pools and spas

Pool volume: 135 kL

BASIX Energy Inclusions

Score 63/63

Hot water system

Central gas-fired boiler R0.6 (~25mm) insulation to ring main and supply risers

Lift motors

All lifts to have gearless traction with VVVF motor with lift load capacity of $\geq 1,001\text{kg}$ to $\leq 1,500\text{kg}$

Appliances and other efficiency measures within units

Gas cooktop & electric oven

Dishwashers: 4.0 star

Clothes dryers: 8.0 star

Heating and cooling within units

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

A minimum efficiency of EER 3.0 – 3.5 is required for cooling; and

A minimum efficiency of EER 3.5 – 4.0 is required for heating

Artificial lighting within units

Minimum of 80% of all light fittings within each room are to have dedicated LED fixtures installed

Ventilation within units

Bathroom: individual fan, ducted to roof or façade – connected to light, timer off

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 – Exhaust air only, running continuously
Plant / service rooms – Supply and exhaust air, thermostatically controlled
Plant / service rooms (naturally ventilated) – Naturally ventilated
Indoor swimming pool / spa / gym – Air conditioning system, time clock or BMS controlled
Communal room – Supply air only, time clock or BMS controlled
Communal outdoor area – Naturally ventilated
Communal bathroom – Exhaust air only, time clock or BMS controlled
Mail / Storage – Supply air only, interlocked to light
Ground floor lobbies – Supply air only, time clock or BMS controlled
Lobbies and hallways – Supply air only, time clock or BMS controlled

Artificial lighting to common areas

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 sensors
Plant / service rooms – Light emitting diodes (LEDs) with manual on / manual off switch
Plant / service rooms (naturally ventilated) – Light emitting diodes (LEDs) with motion sensors
Indoor swimming pool / spa / gym – Light emitting diodes (LEDs) with time clocks
Communal room – Light emitting diodes (LEDs) with daylight sensor and motion sensors
Communal outdoor area – Light emitting diodes (LEDs) with daylight sensors
Communal sauna / steam room – Light emitting diodes (LEDs) with time clocks
Communal bathroom – Light emitting diodes (LEDs) with manual on / manual off switch
Mail / Storage – Light emitting diodes (LEDs) with motion sensors
Ground floor lobbies – Light emitting diodes (LEDs) with daylight sensors
Lobbies and hallways – Light emitting diodes (LEDs) with zoned switching and motion sensors

Alternative Energy

Phase 1: Photovoltaic system: rated electrical output (min.) 150 peak kW (Building 1 & 2), no BASIX requirements for Building 3 (refer to note regarding splitting BASIX for phase 1)
Phase 2: Photovoltaic system: rated electrical output (min.) 15 peak kW
Phase 3: Photovoltaic system: rated electrical output (min.) 30 peak kW



efficient
LIVING

22 November 2024

Australian Capital Equity
Crescent Parklands

Common area swimming pools and spas

Pool heating source: Gas

Pool pump: controlled by timer

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
PODIUM								
201	P201	3	109.5	0	28	5.9	6.5	Glazing upgrade 2
202	P202	3	107.2	0	11.6	8.9	8.1	
203	P203	3	107.2	0	18	8.9	7.3	
204	P204	2	87.6	0	18.2	8.8	7.3	
205	P205	2	83.4	0	11.2	7.9	8.2	
206	P206	2	81	0	12.1	7.7	8.1	
207	P207	2	77.9	0	7.2	11.7	8.2	Glazing upgrade 1
208	P208	2	94.3	0	17.2	4.2	7.9	
301	P301	3	109.5	0	29.7	5.2	6.4	Glazing upgrade 2
302	P302	3	107.2	0	12.7	7	8.1	
303	P303	3	107.2	0	19.8	6.8	7.3	
304	P304	2	87.6	0	16.9	8.1	7.5	
305	P305	2	83.4	0	12.7	6.5	8.2	
306	P306	2	81	0	10.7	7.2	8.3	
307	P307	2	77.9	0	3.1	11.4	8.7	Glazing upgrade 1
308	P308	2	94.3	0	13.2	4.4	8.3	
401	P401	3	109.5	0	30.2	5.4	6.3	Glazing upgrade 2
402	P402	3	107.2	0	13.3	7.8	7.9	
403	P403	3	107.2	0	20.5	7.5	7.2	
404	P404	2	87.6	0	20.8	8	7.1	
405	P405	2	83.4	0	13.3	7.3	8	
406	P406	2	81	0	14.2	7.1	7.9	
407	P407	2	77.9	0	6.6	10.3	8.4	
408	P408	2	94.3	0	15.9	4.6	8.1	
501	P501	3	109.5	0	30.6	5.4	6.2	Glazing upgrade 2
502	P502	3	107.2	0	13.7	7.8	7.9	
503	P503	3	107.2	0	21	7.4	7.2	
504	P504	2	87.6	0	21.3	8.1	7.1	
505	P505	2	83.4	0	13.8	7.1	8	
506	P506	2	81	0	14.7	7	7.9	
507	P507	2	77.9	0	7	10	8.4	

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
508	P508	2	94.3	0	16	4.5	8.1	
601	P601	3	109.5	0	29	8.9	6	Glazing upgrade 4 R2.5 external walls and walls to car park
602	P602	3	107.2	0	22.5	11.2	6.5	Glazing upgrade 1, R2.5 external walls
603	P603	3	107.2	0	27.8	9.9	6	Glazing upgrade 1, R2.5 external walls
604	P604	2	87.6	0	22.5	13.4	6.3	
605	P605	2	83.4	0	16.6	11.7	7.2	
606	P606	2	81	0	17.1	11.7	7.1	
607	P607	2	77.9	0	13.1	16	7.1	
608	P608	2	94.3	0	23.7	7.5	6.8	
Building 1								
701	1701	2	79.1	0	18	13.4	6.8	
702	1702	2	89	0	26.6	7.1	6.5	
703	1703	2	75.2	0	27.3	3.4	6.9	
704	1704	1	57.5	0	22.2	5.6	7.2	
705	1705	2	83.4	0	24.9	6.1	6.9	
706	1706	3	104.3	0	13.2	11.7	7.5	
707	1707	3	106.7	0	9.5	9.7	8.2	
708	1708	2	87.4	0	22.4	4	7.4	
709	1709	1	59.9	0	8	8.6	8.4	
801	1801	2	79.1	0	12.2	12.5	7.5	
802	1802	2	89	0	16.8	8.5	7.4	
803	1803	2	86	0	27	5.9	6.6	
804	1804	1	75.2	0	14.4	4.4	8.2	
805	1805	2	88.1	0	18.5	5.9	7.6	
806	1806	3	83.4	0	16.1	7.4	7.7	
807	1807	3	104.3	0	9.1	11.3	8.1	
808	1808	2	106.7	0	7	10	8.4	
809	1809	1	87.5	0	11.7	5.4	8.4	
810	1810	1	59.9	0	9.9	8.5	8.3	
901	1901	2	79.1	0	12.5	12.3	7.5	
902	1902	2	89	0	17.1	8.1	7.4	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
903	1903	2	86	0	27.1	5.9	6.6	
904	1904	1	75.2	0	14.6	4.4	8.2	
905	1905	2	88.1	0	17.6	5.8	7.7	
906	1906	3	83.4	0	16.4	7.3	7.7	
907	1907	3	104.3	0	9.3	11.3	8	
908	1908	2	106.7	0	7.1	10.1	8.4	
909	1909	1	87.5	0	12	5.4	8.4	
910	1910	1	59.9	0	10.1	8.2	8.3	
1001	11001	2	79.1	0	12.6	12.3	7.5	
1002	11002	2	89	0	17.2	8.1	7.4	
1003	11003	2	86	0	27.2	5.8	6.6	
1004	11004	2	75.2	0	14.9	4.4	8.2	
1005	11005	2	88.1	0	17.9	5.7	7.7	
1006	11006	2	83.4	0	16.5	7.2	7.7	
1007	11007	3	104.3	0	9.4	11.3	8	
1008	11008	3	106.7	0	7.2	9.9	8.4	
1009	11009	2	87.5	0	12.1	5.3	8.4	
1010	11010	1	59.9	0	10.3	8.1	8.3	
1101	11101	2	79.1	0	12.9	12.2	7.4	
1102	11102	2	89	0	17.5	8.1	7.4	
1103	11103	2	86	0	27.6	5.8	6.6	
1104	11104	2	75.2	0	14.9	4.4	8.2	
1105	11105	2	88.1	0	18.2	5.7	7.6	
1106	11106	2	83.4	0	16.8	7	7.6	
1107	11107	3	104.3	0	9.6	11.5	7.9	
1108	11108	3	106.7	0	7.4	9.8	8.4	
1109	11109	2	87.5	0	12.3	5.3	8.3	
1110	11110	1	59.9	0	10.6	8.1	8.2	
1201	11201	2	79.1	0	13	12.2	7.4	
1202	11202	2	89	0	17.7	8.1	7.4	
1203	11203	2	86	0	27.8	5.8	6.6	
1204	11204	2	75.2	0	15.2	4.4	8.1	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

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Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1205	11205	2	88.1	0	18.1	5.7	7.6	
1206	11206	2	83.4	0	17	7.3	7.6	
1207	11207	3	104.3	0	9.5	11.5	8	
1208	11208	3	106.7	0	7.5	9.9	8.4	
1209	11209	2	87.5	0	12.5	5.3	8.3	
1210	11210	1	59.9	0	10.7	8.1	8.2	
1301	11301	2	79.1	0	13.2	12.7	7.4	
1302	11302	2	89	0	17.8	8.1	7.4	
1303	11303	2	86	0	27.9	5.7	6.5	
1304	11304	2	75.2	0	15.3	4.3	8.1	
1305	11305	2	88.1	0	18.3	5.7	7.6	
1306	11306	2	83.4	0	17.1	7.3	7.6	
1307	11307	3	104.3	0	9.6	11.4	8	
1308	11308	3	106.7	0	7.6	9.8	8.4	
1309	11309	2	87.5	0	12.6	5.3	8.3	
1310	11310	1	59.9	0	10.8	8.3	8.2	
1401	11401	2	79.1	0	13.3	12.3	7.4	
1402	11402	2	89	0	18	8.1	7.4	
1403	11403	2	86	0	28.1	5.7	6.5	
1404	11404	2	75.2	0	15.4	4.2	8.1	
1405	11405	2	88.1	0	18.4	5.7	7.6	
1406	11406	2	83.4	0	17.2	6.8	7.6	
1407	11407	3	104.3	0	9.6	11.3	8	
1408	11408	3	106.7	0	7.7	9.8	8.4	
1409	11409	2	87.5	0	12.7	5.2	8.3	
1410	11410	1	59.9	0	11	8.2	8.2	
1501	11501	2	79.1	0	13.8	12	7.4	
1502	11502	2	89	0	18.5	8.4	7.3	
1503	11503	2	86	0	28.6	5.9	6.4	
1504	11504	2	75.2	0	15.9	4.3	8.1	
1505	11505	2	88.1	0	18.9	5.8	7.5	
1506	11506	2	83.4	0	17.8	7	7.5	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1507	11507	3	104.3	0	9.9	11.6	7.9	
1508	11508	3	106.7	0	7.9	9.9	8.3	
1509	11509	2	87.5	0	13.2	5.2	8.3	
1510	11510	1	59.9	0	11.4	8.4	8.1	
1601	11601	2	79.1	0	13.7	11.8	7.4	
1602	11602	2	89	0	18.4	7.8	7.4	
1603	11603	2	86	0	28.6	5.7	6.4	
1604	11604	2	75.2	0	15.8	4.7	8.1	
1605	11605	2	88.1	0	18.8	5.7	7.6	
1606	11606	2	83.4	0	17.6	6.6	7.6	
1607	11607	3	104.3	0	9.9	11.2	7.9	
1608	11608	3	106.7	0	7.8	9.8	8.3	
1609	11609	2	87.5	0	13.1	4.9	8.3	
1610	11610	1	59.9	0	11.3	8.4	8.1	
1701	11701	2	79.1	0	13.8	11.7	7.4	
1702	11702	2	89	0	18.6	7.8	7.4	
1703	11703	2	86	0	28.7	5.6	6.4	
1704	11704	2	75.2	0	15.8	4.6	8.1	
1705	11705	2	88.1	0	18.9	5.9	7.5	
1706	11706	2	83.4	0	17.8	6.6	7.6	
1707	11707	3	104.3	0	9.9	11.2	7.9	
1708	11708	3	106.7	0	7.9	9.8	8.3	
1709	11709	2	87.5	0	13.3	4.8	8.3	
1710	11710	1	59.9	0	11.5	8.1	8.1	
1801	11801	2	79.1	0	14	11.7	7.4	
1802	11802	2	89	0	18.7	7.9	7.3	
1803	11803	2	86	0	28.9	5.7	6.4	
1804	11804	2	75.2	0	15.9	4.7	8	
1805	11805	2	88.1	0	19.3	5.9	7.4	
1806	11806	2	83.4	0	17.9	6.5	7.6	
1807	11807	3	104.3	0	10	11.3	7.9	
1808	11808	3	106.7	0	8	9.7	8.3	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1809	11809	2	87.5	0	13.4	4.8	8.3	
1810	11810	1	59.9	0	11.6	8.1	8.1	
1901	11901	2	79.1	0	14.1	11.5	7.4	
1902	11902	2	89	0	18.9	7.9	7.3	
1903	11903	2	86	0	29	5.8	6.4	
1904	11904	2	75.2	0	16	4.6	8	
1905	11905	2	88.1	0	19.2	6	7.4	
1906	11906	2	83.4	0	18	6.5	7.6	
1907	11907	3	104.3	0	10.1	11.2	7.9	
1908	11908	3	106.7	0	8.1	9.6	8.3	
1909	11909	2	87.5	0	13.5	4.8	8.3	
1910	11910	1	59.9	0	11.8	8.2	8.1	
2001	12001	2	79.1	0	14.3	11.7	7.4	
2002	12002	2	89	0	19	7.8	7.3	
2003	12003	2	86	0	29.1	5.8	6.4	
2004	12004	2	75.2	0	16.1	4.6	8	
2005	12005	2	88.1	0	19.5	5.4	7.5	
2006	12006	2	83.4	0	18.2	6.5	7.5	
2007	12007	3	104.3	0	10.2	11.3	7.9	
2008	12008	3	106.7	0	8.1	9.5	8.3	
2009	12009	2	87.5	0	13.7	5	8.2	
2010	12010	1	59.9	0	11.9	8.1	8.1	
2101	12101	2	79.1	0	14.3	11.7	7.4	
2102	12102	2	89	0	19	7.9	7.3	
2103	12103	2	86	0	29.1	5.8	6.4	
2104	12104	2	75.2	0	16.2	4.6	8	
2105	12105	2	88.1	0	19.2	5.9	7.4	
2106	12106	2	83.4	0	18.1	6.5	7.5	
2107	12107	3	104.3	0	10.2	11.3	7.9	
2108	12108	3	106.7	0	8.1	9.5	8.3	
2109	12109	2	87.5	0	13.7	4.8	8.3	
2110	12110	1	59.9	0	11.9	8.1	8.1	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2201	12201	2	79.1	0	14.4	11.6	7.4	
2202	12202	2	89	0	19.2	7.9	7.3	
2203	12203	2	86	0	29.2	6	6.4	
2204	12204	2	75.2	0	16.3	4.6	8	
2205	12205	2	88.1	0	19.4	5.9	7.4	
2206	12206	2	83.4	0	18.2	6.5	7.5	
2207	12207	3	104.3	0	10.3	11.3	7.9	
2208	12208	3	106.7	0	8.2	9.4	8.3	
2209	12209	2	87.5	0	13.8	4.9	8.2	
2210	12210	1	59.9	0	12.1	7.7	8.1	
2301	12301	2	79.1	0	14.5	11.6	7.4	
2302	12302	2	89	0	19.3	7.8	7.3	
2303	12303	2	86	0	29.2	6	6.4	
2304	12304	2	75.2	0	16.4	4.7	7.9	
2305	12305	2	88.1	0	19.4	5.9	7.4	
2306	12306	2	83.4	0	18.3	6.5	7.5	
2307	12307	3	104.3	0	10.4	11.2	7.9	
2308	12308	3	106.7	0	8.3	9.3	8.3	
2309	12309	2	87.5	0	13.9	4.8	8.2	
2310	12310	1	59.9	0	12.2	7.7	8.1	
2401	12401	2	79.1	0	14.7	11.5	7.4	
2402	12402	2	89	0	19.4	7.9	7.3	
2403	12403	2	86	0	29.3	5.9	6.3	
2404	12404	2	75.2	0	16.4	4.9	7.9	
2405	12405	2	88.1	0	19.8	5.4	7.4	
2406	12406	2	83.4	0	18.4	6.7	7.4	
2407	12407	3	104.3	0	10.5	11.2	7.9	
2408	12408	3	106.7	0	8.4	9.4	8.3	
2409	12409	2	87.5	0	14	4.9	8.2	
2410	12410	1	59.9	0	12.3	7.5	8.1	
2501	12501	2	79.1	0	14.9	11.3	7.4	
2502	12502	2	89	0	19.6	7.9	7.3	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2503	12503	2	86	0	29.3	6.4	6.3	
2504	12504	2	75.2	0	16.5	5.2	7.9	
2505	12505	2	88.1	0	19.7	6	7.4	
2506	12506	2	83.4	0	18.6	6.8	7.4	
2507	12507	3	104.3	0	10.6	11.1	7.9	
2508	12508	3	106.7	0	8.5	9.4	8.3	
2509	12509	2	87.5	0	14.3	4.8	8.2	
2510	12510	1	59.9	0	12.6	7.5	8.1	
2601	12601	2	79.1	0	14.8	11.4	7.4	
2602	12602	2	89	0	19.6	7.9	7.3	
2603	12603	2	86	0	29.1	6.6	6.3	
2604	12604	2	75.2	0	16.3	5.3	7.9	
2605	12605	2	88.1	0	19.8	5.8	7.4	
2606	12606	2	83.4	0	18.4	6.7	7.4	
2607	12607	3	104.3	0	10.5	11	7.9	
2608	12608	3	106.7	0	8.5	9.3	8.3	
2609	12609	2	87.5	0	14.2	5	8.2	
2610	12610	1	59.9	0	12.5	7.4	8.1	
2701	12701	2	79.1	0	14.9	11.3	7.4	
2702	12702	2	89	0	19.7	7.8	7.2	
2703	12703	2	86	0	29.1	6.7	6.3	
2704	12704	2	75.2	0	16.3	5.3	7.9	
2705	12705	2	88.1	0	19.8	5.9	7.4	
2706	12706	2	83.4	0	18.5	6.6	7.4	
2707	12707	3	104.3	0	10.6	10.9	7.9	
2708	12708	3	106.7	0	8.6	9.2	8.3	
2709	12709	2	87.5	0	14.3	5	8.2	
2710	12710	1	59.9	0	12.6	7.3	8.1	
2801	12801	2	79.1	0	15.1	11.2	7.4	
2802	12802	2	89	0	19.9	7.8	7.2	
2803	12803	2	86	0	29	7.1	6.2	
2804	12804	2	75.2	0	16.3	6.2	7.8	

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2805	12805	2	88.1	0	19.8	6.3	7.4	
2806	12806	2	83.4	0	18.5	6.7	7.4	
2807	12807	3	104.3	0	10.6	11.1	7.9	
2808	12808	3	106.7	0	8.6	9.4	8.3	
2809	12809	2	87.5	0	14.4	4.9	8.2	
2810	12810	1	59.9	0	12.8	7.7	8.1	
2901	12901	2	79.1	0	15.2	11.1	7.4	
2902	12902	2	89	0	20	7.8	7.2	
2903	12903	2	86	0	28.3	7.5	6.3	
2904	12904	2	75.2	0	16.1	6.5	7.8	
2905	12905	2	88.1	0	19.8	6.5	7.4	
2906	12906	2	83.4	0	18.6	6.7	7.4	
2907	12907	3	104.3	0	10.7	11	7.9	
2908	12908	3	106.7	0	8.7	9.3	8.3	
2909	12909	2	87.5	0	14.6	4.8	8.2	
2910	12910	1	59.9	0	12.9	7.5	8.1	
3001	13001	2	79.1	0	15.2	11.3	7.3	
3002	13002	2	89	0	20	7.7	7.2	
3003	13003	2	86	0	27.1	7.8	6.4	
3004	13004	2	75.2	0	15.8	7.4	7.7	
3005	13005	2	88.1	0	19.6	6.3	7.4	
3006	13006	2	83.4	0	18.4	6.8	7.4	
3007	13007	3	104.3	0	10.6	11	7.9	
3008	13008	3	106.7	0	8.7	9.3	8.3	
3009	13009	2	87.5	0	14.6	4.7	8.2	
3010	13010	1	59.9	0	12.9	7.4	8.1	
3101	13101	2	79.1	0	15.4	11.2	7.3	
3102	13102	2	89	0	20.1	7.7	7.2	
3103	13103	2	86	0	25.7	9.6	6.3	
3104	13104	2	75.2	0	15.5	8.8	7.6	
3105	13105	2	88.1	0	19.5	6.6	7.4	
3106	13106	2	83.4	0	18.3	6.6	7.5	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
3107	13107	3	104.3	0	10.6	11.2	7.9	
3108	13108	3	106.7	0	8.8	9.3	8.3	
3109	13109	2	87.5	0	14.7	4.8	8.1	
3110	13110	1	59.9	0	13.1	7.4	8.1	
3201	13201	2	79.1	0	15.4	11.2	7.3	
3202	13202	2	89	0	20.2	7.6	7.2	
3203	13203	2	86	0	24.2	10.2	6.4	
3204	13204	2	75.2	0	14.7	9.8	7.6	
3205	13205	2	88.1	0	19.3	6.7	7.4	
3206	13206	2	83.4	0	18.1	7.1	7.4	
3207	13207	3	104.3	0	10.6	11.7	7.8	
3208	13208	3	106.7	0	8.8	9.3	8.3	
3209	13209	2	87.5	0	14.7	4.8	8.1	
3210	13210	1	59.9	0	13.1	7.4	8.1	
3301	13301	2	79.1	0	22.3	11.3	6.5	Glazing upgrade 1
3302	13302	2	89	0	25.3	8.4	6.5	Glazing upgrade 1
3303	13303	2	86	0	25	11.6	6.2	Glazing upgrade 2
3304	13304	2	75.2	0	22	13.1	6.4	Glazing upgrade 1
3305	13305	2	88.1	0	19.2	6.8	7.4	
3306	13306	2	83.4	0	17.9	7.5	7.4	
3307	13307	3	104.3	0	10.6	11.9	7.8	
3308	13308	3	106.7	0	8.9	9.3	8.3	
3309	13309	2	87.5	0	14.8	4.7	8.1	
3310	13310	1	59.9	0	13.2	7.4	8	
3401	13401	2	88.1	0	19.9	7	7.3	
3402	13402	2	83.4	0	17.6	8	7.4	
3403	13403	3	104.3	0	10.6	12	7.8	
3404	13404	3	106.7	0	9	9.3	8.3	
3405	13405	2	87.5	0	14.9	4.9	8.1	
3406	13406	1	59.9	0	13.3	7.4	8	
3501	13501	2	88.1	0	25.6	8.7	6.4	Glazing upgrade 1
3502	13502	2	83.4	0	24.7	9.5	6.4	Glazing upgrade 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
3503	13503	3	104.3	0	20.5	15.9	6.2	
3504	13504	3	106.7	0	18.8	12.4	6.9	
3505	13505	2	87.5	0	25.3	6.6	6.8	
3506	13506	1	59.9	0	23.3	9.5	6.6	
Building 2								
701	2701	2	74	0	31.4	6.3	6	Glazing upgrade 2, R2.5 wall insulation, R2.5 floor insulation above carpark
702	2702	3	99.1	0	21	9	6.9	
703	2703	2	85.1	0	12.4	8.9	7.9	
704	2704	2	80.4	0	14.8	9.8	7.5	
705	2705	2	79.7	0	8.1	18.3	7.4	
706	2706	3	109.1	0	15.5	5	8	
707	2707	1	59.7	0	31.5	3.4	6.4	Glazing upgrade 1
708	2708	2	85.8	0	32.3	3	6.3	
801	2801	2	74	0	29.4	6.9	6.2	Glazing upgrade 1
802	2802	3	99.1	0	23.4	8.3	6.8	
803	2803	2	85.1	0	13.8	8	7.9	
804	2804	2	80.4	0	16.8	9.9	7.3	
805	2805	2	79.7	0	9.8	15.8	7.4	
806	2806	3	109.1	0	16.1	4.9	8	
807	2807	1	59.7	0	25.5	4.3	7	
808	2808	2	85.8	0	21.7	3.5	7.4	
901	2901	2	74	0	29.7	7.1	6.2	Glazing upgrade 1
902	2902	3	99.1	0	23.7	8.3	6.7	
903	2903	2	85.1	0	12.8	8.2	7.9	
904	2904	2	80.4	0	17.2	10.1	7.3	
905	2905	2	79.7	0	10	15.4	7.4	
906	2906	3	109.1	0	16.4	4.9	7.9	
907	2907	1	59.7	0	25.8	4.3	6.9	
908	2908	2	85.8	0	21.8	3.5	7.4	
1001	21001	2	74	0	29.8	7	6.1	Glazing upgrade 1
1002	21002	3	99.1	0	23.9	8.3	6.7	

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1003	21003	2	85.1	0	12.6	8.2	8	
1004	21004	2	80.4	0	17.3	9.4	7.3	
1005	21005	2	79.7	0	10.1	15.3	7.4	
1006	21006	3	109.1	0	16.5	4.9	7.9	
1007	21007	1	59.7	0	26	4.2	6.9	
1008	21008	2	85.8	0	21.9	3.5	7.4	
1101	21101	2	74	0	30.1	7	6.1	Glazing upgrade 1
1102	21102	3	99.1	0	23.3	8.6	6.8	
1103	21103	2	85.1	0	12.7	8	8	
1104	21104	2	80.4	0	17.6	9.3	7.3	
1105	21105	2	79.7	0	10.4	15.3	7.4	
1106	21106	3	109.1	0	16.8	4.9	7.9	
1107	21107	1	59.7	0	26.4	4.2	6.9	
1108	21108	2	85.8	0	22	3.5	7.4	
1201	21201	2	74	0	30.2	6.9	6.1	Glazing upgrade 1
1202	21202	3	99.1	0	23.5	8.6	6.7	
1203	21203	2	85.1	0	13	8.5	7.9	
1204	21204	2	80.4	0	17.8	9.2	7.3	
1205	21205	2	79.7	0	10.5	15.2	7.4	
1206	21206	3	109.1	0	16.9	4.9	7.9	
1207	21207	1	59.7	0	26.6	4.2	6.9	
1208	21208	2	85.8	0	22.2	3.5	7.4	
1301	21301	2	74	0	29.4	7.2	6.2	Glazing upgrade 1
1302	21302	3	99.1	0	23.7	8.2	6.8	
1303	21303	2	85.1	0	13.2	8.5	7.9	
1304	21304	2	80.4	0	17.9	9.3	7.3	
1305	21305	2	79.7	0	10.5	15	7.4	
1306	21306	3	109.1	0	17	4.9	7.9	
1307	21307	1	59.7	0	26.7	4.1	6.9	
1308	21308	2	85.8	0	22.3	3.4	7.4	
1401	21401	2	74	0	29.5	7.1	6.2	Glazing upgrade 1
1402	21402	3	99.1	0	23.8	8.1	6.8	

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1403	21403	2	85.1	0	13.1	8.3	7.9	
1404	21404	2	80.4	0	18	9.2	7.3	
1405	21405	2	79.7	0	10.7	14.8	7.4	
1406	21406	3	109.1	0	17.1	4.9	7.9	
1407	21407	1	59.7	0	26.9	4.1	6.9	
1408	21408	2	85.8	0	22.5	3.5	7.4	
1501	21501	2	74	0	29.7	7.5	6.1	Glazing upgrade 1
1502	21502	3	99.1	0	24.4	8.6	6.6	
1503	21503	2	85.1	0	13.6	8.5	7.9	
1504	21504	2	80.4	0	18.6	9.4	7.2	
1505	21505	2	79.7	0	11	15.2	7.4	
1506	21506	3	109.1	0	17.7	5.1	7.8	
1507	21507	1	59.7	0	27.4	4.4	6.8	
1508	21508	2	85.8	0	23	3.4	7.4	
1601	21601	2	74	0	30.4	7.5	6	Glazing upgrade 1
1602	21602	3	99.1	0	21.7	8	7	
1603	21603	2	85.1	0	14	8.7	7.8	
1604	21604	2	80.4	0	18.6	9.1	7.2	
1605	21605	2	79.7	0	11	15.2	7.4	
1606	21606	3	109.1	0	17.4	5	7.8	
1607	21607	1	59.7	0	24.6	3.9	7.2	
1608	21608	2	85.8	0	22.8	3.2	7.4	
1701	21701	2	74	0	30.3	7.5	6	Glazing upgrade 1
1702	21702	3	99.1	0	24.3	8.8	6.6	
1703	21703	2	85.1	0	14.3	8.7	7.7	
1704	21704	2	80.4	0	18.6	9.1	7.2	
1705	21705	2	79.7	0	10.8	15.2	7.4	
1706	21706	3	109.1	0	17.3	5	7.8	
1707	21707	1	59.7	0	24.6	4.1	7.1	
1708	21708	2	85.8	0	22.7	3.1	7.4	
1801	21801	2	74	0	30.4	7.4	6	Glazing upgrade 1
1802	21802	3	99.1	0	24.4	8.6	6.6	

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1803	21803	2	85.1	0	14.2	8.4	7.8	
1804	21804	2	80.4	0	18.7	8.9	7.2	
1805	21805	2	79.7	0	10.9	15.1	7.4	
1806	21806	3	109.1	0	17.3	5	7.8	
1807	21807	1	59.7	0	24.7	4.1	7.1	
1808	21808	2	85.8	0	22.8	3.2	7.4	
1901	21901	2	74	0	30.4	7.4	6	Glazing upgrade 1
1902	21902	3	99.1	0	24.5	8.9	6.6	
1903	21903	2	85.1	0	14	8	7.9	
1904	21904	2	80.4	0	18.9	9	7.2	
1905	21905	2	79.7	0	11	15.1	7.4	
1906	21906	3	109.1	0	17.4	5	7.8	
1907	21907	1	59.7	0	24.8	4	7.1	
1908	21908	2	85.8	0	23	3.1	7.4	
2001	22001	2	74	0	30.2	7.4	6	Glazing upgrade 1
2002	22002	3	99.1	0	24.7	8.4	6.6	
2003	22003	2	85.1	0	13.9	8.5	7.8	
2004	22004	2	80.4	0	19	8.8	7.2	
2005	22005	2	79.7	0	11.1	14.8	7.4	
2006	22006	3	109.1	0	17.6	5.1	7.8	
2007	22007	1	59.7	0	24.9	4	7.1	
2008	22008	2	85.8	0	23.2	3.2	7.4	
2101	22101	2	74	0	30.2	7.4	6.1	Glazing upgrade 1
2102	22102	3	99.1	0	24.7	8.3	6.6	
2103	22103	2	85.1	0	14.3	8.3	7.8	
2104	22104	2	80.4	0	19	8.8	7.2	
2105	22105	2	79.7	0	11.1	14.8	7.4	
2106	22106	3	109.1	0	17.5	5.2	7.8	
2107	22107	1	59.7	0	24.8	4.1	7.1	
2108	22108	2	85.8	0	23	3.2	7.4	
2201	22201	2	74	0	30	6.9	6.1	Glazing upgrade 1
2202	22202	3	99.1	0	24.9	8.5	6.6	

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2203	22203	2	85.1	0	14.4	8.5	7.8	
2204	22204	2	80.4	0	19.2	9	7.2	
2205	22205	2	79.7	0	11.2	14.6	7.4	
2206	22206	3	109.1	0	17.7	5.3	7.8	
2207	22207	1	59.7	0	24.8	4.1	7.1	
2208	22208	2	85.8	0	23.2	3.3	7.4	
2301	22301	2	74	0	29.9	7.6	6.1	Glazing upgrade 1
2302	22302	3	99.1	0	24.9	8.4	6.6	
2303	22303	2	85.1	0	14.7	8.2	7.8	
2304	22304	2	80.4	0	19.3	8.7	7.2	
2305	22305	2	79.7	0	11.4	14.7	7.4	
2306	22306	3	109.1	0	17.9	5.3	7.7	
2307	22307	1	59.7	0	25	4.1	7.1	
2308	22308	2	85.8	0	23.1	3.2	7.4	
2401	22401	2	74	0	30	7.7	6	Glazing upgrade 1
2402	22402	3	99.1	0	25.1	8.9	6.4	
2403	22403	2	85.1	0	14.8	8.3	7.7	
2404	22404	2	80.4	0	19.5	8.8	7.2	
2405	22405	2	79.7	0	11.6	14.7	7.4	
2406	22406	3	109.1	0	18.1	5.6	7.7	
2407	22407	1	59.7	0	25.1	4.1	7.1	
2408	22408	2	85.8	0	23.1	3.2	7.4	
2501	22501	2	74	0	29.9	6.8	6.2	Glazing upgrade 1
2502	22502	3	99.1	0	25.5	8.7	6.4	
2503	22503	2	85.1	0	15.1	8.5	7.7	
2504	22504	2	80.4	0	19.8	8.8	7.1	
2505	22505	2	79.7	0	12.2	14.4	7.3	
2506	22506	3	109.1	0	18.4	5.5	7.6	
2507	22507	1	59.7	0	25.2	4.2	7.1	
2508	22508	2	85.8	0	23	3.3	7.4	
2601	22601	2	74	0	29.4	7	6.2	Glazing upgrade 1
2602	22602	3	99.1	0	25.1	8.6	6.5	

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2603	22603	2	85.1	0	14.8	8.2	7.8	
2604	22604	2	80.4	0	19.6	8.7	7.2	
2605	22605	2	79.7	0	11.9	14.3	7.4	
2606	22606	3	109.1	0	17.9	5.5	7.7	
2607	22607	1	59.7	0	24.8	4.5	7.1	
2608	22608	2	85.8	0	22.9	3.2	7.4	
2701	22701	2	74	0	29.6	7.4	6.1	Glazing upgrade 1
2702	22702	3	99.1	0	25.5	8.3	6.5	
2703	22703	2	85.1	0	14.9	8.2	7.7	
2704	22704	2	80.4	0	19.8	8.6	7.2	
2705	22705	2	79.7	0	12	14.3	7.4	
2706	22706	3	109.1	0	18.2	5.8	7.6	
2707	22707	1	59.7	0	28.1	4.6	6.7	
2708	22708	2	85.8	0	19.2	4	7.7	
2801	22801	2	74	0	29.4	7.5	6.1	Glazing upgrade 1
2802	22802	3	99.1	0	25.5	8.7	6.4	
2803	22803	2	85.1	0	15.1	8.6	7.7	
2804	22804	2	80.4	0	19.9	8.7	7.1	
2805	22805	2	79.7	0	12.1	14.4	7.4	
2806	22806	3	109.1	0	17.9	5.9	7.6	
2807	22807	1	59.7	0	24.8	4.8	7	
2808	22808	2	85.8	0	21.3	3.9	7.4	
2901	22901	2	74	0	29.5	7.5	6.1	Glazing upgrade 1
2902	22902	3	99.1	0	25.7	8.8	6.4	
2903	22903	2	85.1	0	15.4	8.7	7.6	
2904	22904	2	80.4	0	20.1	8.5	7.1	
2905	22905	2	79.7	0	12.2	14.3	7.3	
2906	22906	3	109.1	0	17.6	6	7.7	
2907	22907	1	59.7	0	24.6	4.8	7.1	
2908	22908	2	85.8	0	20.6	3.9	7.6	
3001	23001	2	74	0	29.1	7	6.2	Glazing upgrade 1
3002	23002	3	99.1	0	25.7	9.1	6.4	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
3003	23003	2	85.1	0	15.3	8.2	7.7	
3004	23004	2	80.4	0	20.1	8.4	7.2	
3005	23005	2	79.7	0	12.3	14.3	7.3	
3006	23006	3	109.1	0	16.9	6.1	7.7	
3007	23007	1	59.7	0	23.4	5.3	7.1	
3008	23008	2	85.8	0	19.8	4.2	7.6	
3101	23101	2	74	0	28.8	7.2	6.3	Glazing upgrade 1
3102	23102	3	99.1	0	25.7	8.6	6.4	
3103	23103	2	85.1	0	15.5	8.9	7.6	
3104	23104	2	80.4	0	20.2	8.4	7.1	
3105	23105	2	79.7	0	12.4	14	7.4	
3106	23106	3	109.1	0	16	6.4	7.8	
3107	23107	1	59.7	0	21.1	5.8	7.3	
3108	23108	2	85.8	0	18	4.5	7.8	
3201	23201	2	74	0	27.8	7	6.4	Glazing upgrade 1
3202	23202	3	99.1	0	27.8	9.1	6.1	Glazing upgrade 2
3203	23203	2	85.1	0	25.4	10.5	6.3	
3204	23204	2	80.4	0	26.3	8.1	6.4	Glazing upgrade 1
3205	23205	2	79.7	0	19.8	15.5	6.3	Glazing upgrade 1
3206	23206	3	109.1	0	14.4	6.6	8	
3207	23207	1	59.7	0	16.8	6	7.8	
3208	23208	2	85.8	0	13.8	4.6	8.3	
3301	23301	2	74	0	27.6	8.1	6.3	Glazing upgrade 2
3302	23302	3	109.1	0	29.2	8.1	6.1	
3303	23303	1	59.7	0	27.2	8.5	6.3	
3304	23304	2	85.8	0	22.5	6.7	7.1	
Building 3								
701	3701	2	81.3	0	25.3	10.5	6.3	
702	3702	3	103.4	0	21.4	6	7.3	
703	3703	3	104	0	21.8	3.5	7.4	
704	3704	2	85.2	0	14.2	7.4	7.9	
705	3705	2	80.5	0	25.7	6.8	6.7	Glazing upgrade 1

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
706	3706	2	77	0	32.2	3.7	6.3	
801	3801	2	81.3	0	18.7	11.3	7	
802	3802	3	103.4	0	8.6	8.9	8.4	
803	3803	1	53.2	0	10.8	6.2	8.4	
804	3804	3	104	0	10.3	4.1	8.7	
805	3805	2	85.2	0	7.2	8.1	8.6	
806	3806	2	80.5	0	20.8	9.2	7	
807	3807	2	77	0	21.2	4.4	7.4	
901	3901	2	81.3	0	20.9	10.3	6.8	
902	3902	3	103.4	0	10.3	7.3	8.3	
903	3903	1	53.2	0	9.6	6.7	8.4	
904	3904	3	104	0	12.1	4.1	8.4	
905	3905	2	85.2	0	8.7	8	8.4	
906	3906	2	80.5	0	23.2	8.9	6.7	
907	3907	2	77	0	23.6	4.3	7.2	
1001	31001	2	81.3	0	21.2	10.2	6.8	
1002	31002	3	103.4	0	10.7	7.6	8.3	
1003	31003	1	53.2	0	9.8	6.6	8.4	
1004	31004	3	104	0	12.4	4	8.4	
1005	31005	2	85.2	0	8.9	7.9	8.4	
1006	31006	2	80.5	0	23.5	8.6	6.7	
1007	31007	2	77	0	23.6	4.3	7.2	
1101	31101	2	81.3	0	21.5	10.3	6.8	
1102	31102	3	103.4	0	10.9	7.4	8.3	
1103	31103	1	53.2	0	10.1	6.5	8.4	
1104	31104	3	104	0	12.7	3.9	8.4	
1105	31105	2	85.2	0	9.1	7.9	8.4	
1106	31106	2	80.5	0	23.9	8.6	6.7	
1107	31107	2	77	0	23.8	4.3	7.2	
1201	31201	2	81.3	0	21.7	10.2	6.8	
1202	31202	3	103.4	0	11.1	7.5	8.2	
1203	31203	1	53.2	0	10.3	6.3	8.4	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1204	31204	3	104	0	12.8	3.8	8.4	
1205	31205	2	85.2	0	9.2	8	8.4	
1206	31206	2	80.5	0	24.1	8.5	6.7	
1207	31207	2	77	0	23.9	4.4	7.2	
1301	31301	2	81.3	0	21.9	10.1	6.8	
1302	31302	3	103.4	0	11.2	7.6	8.2	
1303	31303	1	53.2	0	10.4	6.4	8.4	
1304	31304	3	104	0	12.9	3.8	8.4	
1305	31305	2	85.2	0	9.3	8	8.4	
1306	31306	2	80.5	0	24.3	8.5	6.7	
1307	31307	2	77	0	24.1	4.4	7.2	
1401	31401	2	81.3	0	22.2	10.2	6.7	
1402	31402	3	103.4	0	11.4	7.5	8.2	
1403	31403	1	53.2	0	10.6	6.3	8.4	
1404	31404	3	104	0	13.2	3.8	8.4	
1405	31405	2	85.2	0	9.5	8.1	8.3	
1406	31406	2	80.5	0	24.6	8.5	6.6	
1407	31407	2	77	0	24.3	4.4	7.1	
1501	31501	2	81.3	0	22.4	10.2	6.7	
1502	31502	3	103.4	0	11.8	7.6	8.2	
1503	31503	1	53.2	0	10.8	6.3	8.4	
1504	31504	3	104	0	13.4	3.8	8.4	
1505	31505	2	85.2	0	9.7	8	8.3	
1506	31506	2	80.5	0	24.9	8.5	6.6	
1507	31507	2	77	0	24.6	4.4	7.1	
1601	31601	2	81.3	0	22.5	10.1	6.7	
1602	31602	3	103.4	0	12.1	7.6	8.1	
1603	31603	1	53.2	0	10.9	6.1	8.4	
1604	31604	3	104	0	13.4	3.8	8.4	
1605	31605	2	85.2	0	9.7	7.8	8.4	
1606	31606	2	80.5	0	24.9	9.2	6.4	
1607	31607	2	77	0	24.7	4.2	7.1	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1701	31701	2	81.3	0	22.7	10	6.7	
1702	31702	3	103.4	0	12.2	7.5	8.1	
1703	31703	1	53.2	0	11	6.1	8.4	
1704	31704	3	104	0	13.6	3.8	8.4	
1705	31705	2	85.2	0	9.8	7.7	8.3	
1706	31706	2	80.5	0	25.3	9.3	6.4	
1707	31707	2	77	0	24.9	4.2	7.1	
1801	31801	2	81.3	0	22.8	10.1	6.6	
1802	31802	3	103.4	0	12.4	7.5	8.1	
1803	31803	1	53.2	0	11.1	6	8.4	
1804	31804	3	104	0	13.7	3.8	8.4	
1805	31805	2	85.2	0	9.9	7.7	8.3	
1806	31806	2	80.5	0	25.3	9.1	6.4	
1807	31807	2	77	0	25.1	4.2	7.1	
1901	31901	2	81.3	0	23	10.2	6.6	
1902	31902	3	103.4	0	12.5	7.5	8.1	
1903	31903	1	53.2	0	11.2	6	8.4	
1904	31904	3	104	0	13.8	3.8	8.3	
1905	31905	2	85.2	0	10	7.8	8.3	
1906	31906	2	80.5	0	25.4	9	6.4	
1907	31907	2	77	0	25.3	4.2	7.1	
2001	32001	2	81.3	0	23.1	10.1	6.6	
2002	32002	3	103.4	0	12.6	7.4	8.1	
2003	32003	1	53.2	0	11.4	6.2	8.3	
2004	32004	3	104	0	13.9	3.8	8.3	
2005	32005	2	85.2	0	10.1	7.8	8.3	
2006	32006	2	80.5	0	25.6	9	6.4	
2007	32007	2	77	0	25.4	4.3	7	
2101	32101	2	81.3	0	23.3	9.8	6.6	
2102	32102	3	103.4	0	12.7	7.5	8.1	
2103	32103	1	53.2	0	11.5	6.2	8.3	
2104	32104	3	104	0	14.1	3.9	8.3	

Thermal Comfort Upgrades

Proposed Residential Development

1 Crescent Street,
Holroyd NSW 2142
Phase 1

Certificate # T6WQKU-02, 9AFAZV-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2105	32105	2	85.2	0	10.3	7.7	8.3	
2106	32106	2	80.5	0	25.8	9	6.4	
2107	32107	2	77	0	25.6	4.1	7	
2201	32201	2	81.3	0	23.4	9.9	6.6	
2202	32202	3	103.4	0	12.8	7.5	8.1	
2203	32203	1	53.2	0	11.6	6.1	8.3	
2204	32204	3	104	0	14.2	3.9	8.3	
2205	32205	2	85.2	0	10.3	7.7	8.3	
2206	32206	2	80.5	0	27	10.6	6.1	
2207	32207	2	77	0	25.9	4.1	7	
2301	32301	2	81.3	0	25.5	10.9	6.2	Glazing upgrade 2
2302	32302	3	103.4	0	24.6	9.3	6.5	
2303	32303	1	53.2	0	24.4	8.2	6.7	
2304	32304	3	104	0	26.5	5.8	6.7	
2305	32305	2	85.2	0	19.4	9.6	7.1	
2306	32306	2	80.5	0	25.9	9.9	6.3	Glazing upgrade 2
2307	32307	2	77	0	30.7	5.1	6.3	Glazing upgrade 1

Nationwide House Energy Rating Scheme® Class 2 Summary

NatHERS® Certificate No. #HR-T6WQKU-02

Generated on 22 Nov 2024 using Hero 4.1

Property

Address 1 Crescent Street, Holroyd, NSW, 2142
Lot/DP 700/-/DP1241836
NatHERS climate zone 56 - Mascot AMO



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Verification

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National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

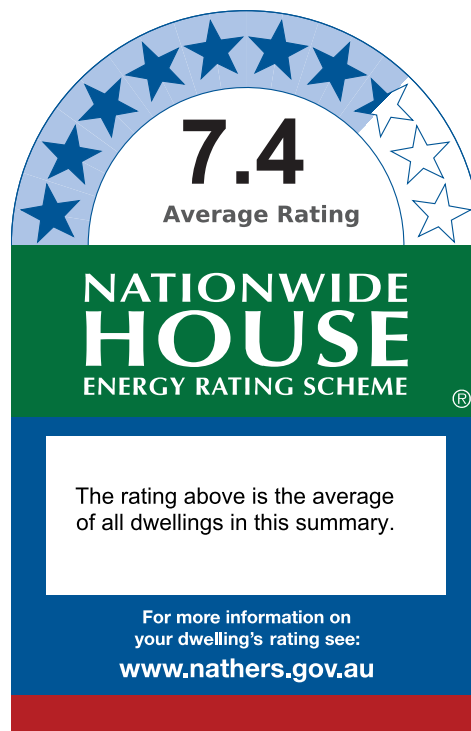
The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m².yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Rating
HR-SF5GAY-01	13504	18.8 (34)	12.4 (21)	31.1	6.9	n/a
HR-48ZZGS-01	21101	30.1 (34)	7.0 (21)	37.0	6.1	n/a
HR-LLOFPR-01	21102	23.3 (34)	8.6 (21)	31.9	6.8	n/a

Thermal performance Star rating



NCC heating and cooling maximum loads MJ/m².yr

Limits taken from ABCB Standard 2022

	Heating	Cooling
Average load	17.9	7.8
Maximum load	32.3	18.3
Average limit	28.1	20.0
Maximum limit	34.4	21.4

Whole of Home performance rating

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

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-JQ78A2-01	21103	12.7 (34)	8.0 (21)	20.7	8.0	n/a
HR-HJKYA0-01	21104	17.6 (34)	9.3 (21)	26.9	7.3	n/a
HR-QNV3ZD-01	21106	16.8 (34)	4.9 (21)	21.6	7.9	n/a
HR-2KTQGD-01	21108	22.0 (34)	3.5 (21)	25.5	7.4	n/a
HR-5TSGQY-01	21201	30.2 (34)	6.9 (21)	37.1	6.1	n/a
HR-U7IFYT-01	21203	13.0 (34)	8.5 (21)	21.5	7.9	n/a
HR-BSGYSJ-01	21205	10.5 (34)	15.2 (21)	25.7	7.4	n/a
HR-DDFZQ3-01	21206	16.9 (34)	4.9 (21)	21.8	7.9	n/a
HR-AR9NGE-01	21207	26.6 (34)	4.2 (21)	30.7	6.9	n/a
HR-W6NDKM-01	21208	22.2 (34)	3.5 (21)	25.7	7.4	n/a
HR-CKOKVZ-01	21301	29.4 (34)	7.2 (21)	36.6	6.2	n/a
HR-G0PSW2-01	21303	13.2 (34)	8.5 (21)	21.6	7.9	n/a
HR-A9D1EW-01	21304	17.9 (34)	9.3 (21)	27.2	7.3	n/a
HR-ISATNC-01	21305	10.5 (34)	15.0 (21)	25.6	7.4	n/a
HR-JBWY53-01	21306	17.0 (34)	4.9 (21)	21.9	7.9	n/a
HR-OHH3DG-01	21307	26.7 (34)	4.1 (21)	30.8	6.9	n/a
HR-JKQYRO-01	21308	22.3 (34)	3.4 (21)	25.7	7.4	n/a
HR-ROT4WJ-01	21402	23.8 (34)	8.1 (21)	31.9	6.8	n/a
HR-YXDOZ1-01	21403	13.1 (34)	8.3 (21)	21.4	7.9	n/a
HR-W5WO9H-01	21404	18.0 (34)	9.2 (21)	27.2	7.3	n/a
HR-YJSBM8-01	21405	10.7 (34)	14.8 (21)	25.5	7.4	n/a
HR-WP5UDU-01	21406	17.1 (34)	4.9 (21)	22.0	7.9	n/a
HR-301K9T-01	21407	26.9 (34)	4.1 (21)	31.0	6.9	n/a
HR-506SNE-01	21408	22.5 (34)	3.5 (21)	26.0	7.4	n/a
HR-19DXOK-01	21501	29.7 (34)	7.5 (21)	37.2	6.1	n/a
HR-9W66YT-01	21502	24.4 (34)	8.6 (21)	33.0	6.6	n/a
HR-E09MR6-01	21503	13.6 (34)	8.5 (21)	22.1	7.9	n/a
HR-PP5BOP-01	21505	11.0 (34)	15.2 (21)	26.3	7.4	n/a
HR-12GZX1-01	21506	17.7 (34)	5.1 (21)	22.9	7.8	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-ZSHC90-01	21507	27.4 (34)	4.4 (21)	31.8	6.8	n/a
HR-7VFLBK-01	21508	23.0 (34)	3.4 (21)	26.3	7.4	n/a
HR-EQE7SB-01	21705	10.8 (34)	15.2 (21)	26.0	7.4	n/a
HR-FUB1OP-01	21802	24.4 (34)	8.6 (21)	33.0	6.6	n/a
HR-ZQFZB5-01	21803	14.2 (34)	8.4 (21)	22.7	7.8	n/a
HR-V3VB3M-01	21807	24.7 (34)	4.1 (21)	28.8	7.1	n/a
HR-FSWDS7-01	21902	24.5 (34)	8.9 (21)	33.4	6.6	n/a
HR-2CEQVB-01	21903	14.0 (34)	8.0 (21)	22.0	7.9	n/a
HR-EWDEG7-01	21904	18.9 (34)	9.0 (21)	27.9	7.2	n/a
HR-OVV45F-01	21905	11.0 (34)	15.1 (21)	26.1	7.4	n/a
HR-FPDX6D-01	21907	24.8 (34)	4.0 (21)	28.9	7.1	n/a
HR-XXO744-01	22001	30.2 (34)	7.4 (21)	37.6	6.0	n/a
HR-CT10RX-01	22003	13.9 (34)	8.5 (21)	22.5	7.8	n/a
HR-Q1WOD3-01	22004	19.0 (34)	8.8 (21)	27.9	7.2	n/a
HR-UPTXAV-01	22005	11.1 (34)	14.8 (21)	26.0	7.4	n/a
HR-CB8HFT-01	22007	24.9 (34)	4.0 (21)	28.9	7.1	n/a
HR-VBXP4-01	22103	14.3 (34)	8.3 (21)	22.6	7.8	n/a
HR-AZRJ89-01	22204	19.2 (34)	9.0 (21)	28.2	7.2	n/a
HR-MCCN0W-01	22207	24.8 (34)	4.1 (21)	29.0	7.1	n/a
HR-089UUY-01	22208	23.2 (34)	3.3 (21)	26.4	7.4	n/a
HR-QQMXW4-01	22302	24.9 (34)	8.4 (21)	33.3	6.6	n/a
HR-WT0N2W-01	22404	19.5 (34)	8.8 (21)	28.3	7.2	n/a
HR-4HUNXS-01	22407	25.1 (34)	4.1 (21)	29.2	7.1	n/a
HR-LZ7MQR-01	22601	29.4 (34)	7.0 (21)	36.4	6.2	n/a
HR-52VB4O-01	22603	14.8 (34)	8.2 (21)	23.0	7.8	n/a
HR-TCMLCO-01	22604	19.6 (34)	8.7 (21)	28.3	7.2	n/a
HR-HDUNV6-01	22605	11.9 (34)	14.3 (21)	26.2	7.4	n/a
HR-BGVFFF-01	22607	24.8 (34)	4.5 (21)	29.3	7.1	n/a
HR-547E4T-01	22608	22.9 (34)	3.2 (21)	26.1	7.4	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-OCF5N2-01	22704	19.8 (34)	8.6 (21)	28.4	7.2	n/a
HR-OPWYR7-01	22705	12.0 (34)	14.3 (21)	26.3	7.4	n/a
HR-PYMZGR-01	22707	28.1 (34)	4.6 (21)	32.7	6.7	n/a
HR-ZCVLWG-01	22708	19.2 (34)	4.0 (21)	23.2	7.7	n/a
HR-HY426F-01	22803	15.1 (34)	8.6 (21)	23.7	7.7	n/a
HR-ECFJ55-01	22805	12.1 (34)	14.4 (21)	26.5	7.4	n/a
HR-9F0Q5D-01	22807	24.8 (34)	4.8 (21)	29.5	7.0	n/a
HR-TAM6P8-01	22902	25.7 (34)	8.8 (21)	34.4	6.4	n/a
HR-X2AT3S-01	22904	20.1 (34)	8.5 (21)	28.5	7.1	n/a
HR-SZ3A62-01	22905	12.2 (34)	14.3 (21)	26.5	7.3	n/a
HR-82QF3R-01	22907	24.6 (34)	4.8 (21)	29.4	7.1	n/a
HR-Q9ZVL8-01	22908	20.6 (34)	3.9 (21)	24.5	7.6	n/a
HR-911RUT-01	23001	29.1 (34)	7.0 (21)	36.1	6.2	n/a
HR-E5F2XC-01	23008	19.8 (34)	4.2 (21)	24.0	7.6	n/a
HR-M2LSY4-01	23103	15.5 (34)	8.9 (21)	24.4	7.6	n/a
HR-3M8FHV-01	23106	16.0 (34)	6.4 (21)	22.4	7.8	n/a
HR-NVFXML-01	23107	21.1 (34)	5.8 (21)	26.9	7.3	n/a
HR-N4S1XX-01	23203	25.4 (34)	10.5 (21)	35.9	6.3	n/a
HR-AVUHSR-01	23205	19.8 (34)	15.5 (21)	35.3	6.3	n/a
HR-99ADC4-01	23206	14.4 (34)	6.6 (21)	21.0	8.0	n/a
HR-SBC3GF-01	23207	16.8 (34)	6.0 (21)	22.7	7.8	n/a
HR-FPQ1VP-01	P201	28.0 (34)	5.9 (21)	33.9	6.5	n/a
HR-IZ1FL0-01	P202	11.6 (34)	8.9 (21)	20.4	8.1	n/a
HR-XBISUF-01	P203	18.0 (34)	8.9 (21)	26.9	7.3	n/a
HR-COT9FQ-01	P204	18.2 (34)	8.8 (21)	27.0	7.3	n/a
HR-O6Y0H0-01	P205	11.2 (34)	7.9 (21)	19.1	8.2	n/a
HR-VNNDWJ-01	P206	12.1 (34)	7.7 (21)	19.8	8.1	n/a
HR-JQBHL1-01	P207	7.2 (34)	11.7 (21)	18.9	8.2	n/a
HR-59VITO-01	P208	17.2 (34)	4.2 (21)	21.4	7.9	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-RA0HEE-01	P301	29.7 (34)	5.2 (21)	34.9	6.4	n/a
HR-CLEI75-01	P302	12.7 (34)	7.0 (21)	19.8	8.1	n/a
HR-SUVHPS-01	P303	19.8 (34)	6.8 (21)	26.6	7.3	n/a
HR-NAQKF3-01	P304	16.9 (34)	8.1 (21)	25.0	7.5	n/a
HR-A8O8YH-01	P305	12.7 (34)	6.5 (21)	19.2	8.2	n/a
HR-9O2CDE-01	P306	10.7 (34)	7.2 (21)	17.9	8.3	n/a
HR-HG5AHV-01	P307	3.1 (34)	11.4 (21)	14.5	8.7	n/a
HR-CP3F5V-01	P308	13.2 (34)	4.4 (21)	17.6	8.3	n/a
HR-RKG5ZN-01	P401	30.2 (34)	5.4 (21)	35.7	6.3	n/a
HR-GB64KI-01	P402	13.3 (34)	7.8 (21)	21.1	7.9	n/a
HR-CXDT5D-01	P403	20.5 (34)	7.5 (21)	28.0	7.2	n/a
HR-UCJ0KW-01	P404	20.8 (34)	8.0 (21)	28.8	7.1	n/a
HR-QMPKRA-01	P405	13.3 (34)	7.3 (21)	20.6	8.0	n/a
HR-1DXPGE-01	P406	14.2 (34)	7.1 (21)	21.3	7.9	n/a
HR-NWWP0X-01	P407	6.6 (34)	10.3 (21)	17.0	8.4	n/a
HR-P0ZJJX-01	P408	15.9 (34)	4.6 (21)	20.5	8.1	n/a
HR-JHYZPI-01	P501	30.6 (34)	5.4 (21)	36.0	6.2	n/a
HR-HZQLX3-01	P502	13.7 (34)	7.8 (21)	21.5	7.9	n/a
HR-AVXOJF-01	P503	21.0 (34)	7.4 (21)	28.4	7.2	n/a
HR-A0XBHE-01	P504	21.3 (34)	8.1 (21)	29.4	7.1	n/a
HR-FT3EU5-01	P505	13.8 (34)	7.1 (21)	20.9	8.0	n/a
HR-SD1RCO-01	P506	14.7 (34)	7.0 (21)	21.7	7.9	n/a
HR-G92M21-01	P507	7.0 (34)	10.0 (21)	17.0	8.4	n/a
HR-9N1L89-01	P508	16.0 (34)	4.5 (21)	20.5	8.1	n/a
HR-GZXXJ7-01	P601	29.0 (34)	8.9 (21)	37.9	6.0	n/a
HR-ZC1X62-01	P602	22.5 (34)	11.2 (21)	33.8	6.5	n/a
HR-U4A6ZQ-01	P603	27.8 (34)	9.9 (21)	37.7	6.0	n/a
HR-BFQAP5-01	P604	22.5 (34)	13.4 (21)	35.9	6.3	n/a
HR-MSMSFR-01	P605	16.6 (34)	11.7 (21)	28.3	7.2	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-AZ9X7L-01	P606	17.1 (34)	11.7 (21)	28.8	7.1	n/a
HR-A9ZU9Q-01	P607	13.1 (34)	16.0 (21)	29.1	7.1	n/a
HR-2W0TSQ-01	P608	23.7 (34)	7.5 (21)	31.2	6.8	n/a
HR-U0XE0L-02	11001	12.6 (34)	12.3 (21)	24.9	7.5	n/a
HR-6LNB78-02	11002	17.2 (34)	8.1 (21)	25.4	7.4	n/a
HR-UYZ2F3-02	11003	27.2 (34)	5.8 (21)	33.1	6.6	n/a
HR-MZJUCN-02	11004	14.9 (34)	4.4 (21)	19.3	8.2	n/a
HR-7UTUB8-02	11005	17.9 (34)	5.7 (21)	23.6	7.7	n/a
HR-TFZWYX-02	11006	16.5 (34)	7.2 (21)	23.7	7.7	n/a
HR-QXRA5M-02	11007	9.4 (34)	11.3 (21)	20.7	8.0	n/a
HR-3XM4KB-02	11008	7.2 (34)	9.9 (21)	17.1	8.4	n/a
HR-7E81RK-02	11009	12.1 (34)	5.3 (21)	17.4	8.4	n/a
HR-YD129G-02	11010	10.3 (34)	8.1 (21)	18.4	8.3	n/a
HR-NY34LP-02	11101	12.9 (34)	12.2 (21)	25.1	7.4	n/a
HR-ICB3EN-02	11102	17.5 (34)	8.1 (21)	25.6	7.4	n/a
HR-6QXLL5-02	11103	27.6 (34)	5.8 (21)	33.3	6.6	n/a
HR-PM9EBT-02	11104	14.9 (34)	4.4 (21)	19.3	8.2	n/a
HR-Q4GA9T-02	11105	18.2 (34)	5.7 (21)	23.9	7.6	n/a
HR-BT8X44-02	11106	16.8 (34)	7.0 (21)	23.8	7.6	n/a
HR-C35SHU-02	11107	9.6 (34)	11.5 (21)	21.0	7.9	n/a
HR-K31H3E-02	11108	7.4 (34)	9.8 (21)	17.2	8.4	n/a
HR-8VOKFG-02	11109	12.3 (34)	5.3 (21)	17.6	8.3	n/a
HR-WU157Z-02	11110	10.6 (34)	8.1 (21)	18.7	8.2	n/a
HR-KCMMO3-02	11201	13.0 (34)	12.2 (21)	25.2	7.4	n/a
HR-ASV2F1-02	11202	17.7 (34)	8.1 (21)	25.8	7.4	n/a
HR-AMRHWY-02	11203	27.8 (34)	5.8 (21)	33.5	6.6	n/a
HR-3TYUJX-02	11204	15.2 (34)	4.4 (21)	19.6	8.1	n/a
HR-NMXLXR-02	11205	18.1 (34)	5.7 (21)	23.9	7.6	n/a
HR-5RF57L-02	11206	17.0 (34)	7.3 (21)	24.2	7.6	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-MB4AXR-02	11207	9.5 (34)	11.5 (21)	21.0	8.0	n/a
HR-J5S5JB-02	11208	7.5 (34)	9.9 (21)	17.3	8.4	n/a
HR-UH7877-02	11209	12.5 (34)	5.3 (21)	17.8	8.3	n/a
HR-EZWRLF-02	11210	10.7 (34)	8.1 (21)	18.8	8.2	n/a
HR-KIUWYF-02	11301	13.2 (34)	12.7 (21)	25.9	7.4	n/a
HR-RCZHLZ-02	11302	17.8 (34)	8.1 (21)	25.9	7.4	n/a
HR-5POSNH-02	11303	27.9 (34)	5.7 (21)	33.6	6.5	n/a
HR-C4H954-02	11304	15.3 (34)	4.3 (21)	19.6	8.1	n/a
HR-FP9ZK7-02	11305	18.3 (34)	5.7 (21)	24.0	7.6	n/a
HR-58SZ1U-02	11306	17.1 (34)	7.3 (21)	24.4	7.6	n/a
HR-DKMNCA-02	11307	9.6 (34)	11.4 (21)	21.0	8.0	n/a
HR-Z8XD9F-02	11308	7.6 (34)	9.8 (21)	17.4	8.4	n/a
HR-E6QRNF-02	11309	12.6 (34)	5.3 (21)	17.9	8.3	n/a
HR-OCT2L7-02	11310	10.8 (34)	8.3 (21)	19.1	8.2	n/a
HR-KEA1NL-02	11401	13.3 (34)	12.3 (21)	25.6	7.4	n/a
HR-GHL0I5-02	11402	18.0 (34)	8.1 (21)	26.1	7.4	n/a
HR-ATHMB9-02	11403	28.1 (34)	5.7 (21)	33.8	6.5	n/a
HR-5G7ZBC-02	11404	15.4 (34)	4.2 (21)	19.7	8.1	n/a
HR-FM4LBU-02	11405	18.4 (34)	5.7 (21)	24.1	7.6	n/a
HR-HT9ZQP-02	11406	17.2 (34)	6.8 (21)	24.0	7.6	n/a
HR-AHV5OD-02	11407	9.6 (34)	11.3 (21)	20.9	8.0	n/a
HR-35NBFF-02	11408	7.7 (34)	9.8 (21)	17.4	8.4	n/a
HR-BTYSVB-02	11409	12.7 (34)	5.2 (21)	18.0	8.3	n/a
HR-6YQFD4-02	11410	11.0 (34)	8.2 (21)	19.2	8.2	n/a
HR-N2WS73-02	11501	13.8 (34)	12.0 (21)	25.8	7.4	n/a
HR-VREXFF-02	11502	18.5 (34)	8.4 (21)	26.9	7.3	n/a
HR-1DQVWJ-02	11503	28.6 (34)	5.9 (21)	34.5	6.4	n/a
HR-026WGU-02	11504	15.9 (34)	4.3 (21)	20.3	8.1	n/a
HR-F4FP67-02	11505	18.9 (34)	5.8 (21)	24.7	7.5	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-62NCG1-02	11506	17.8 (34)	7.0 (21)	24.7	7.5	n/a
HR-GI9L63-02	11507	9.9 (34)	11.6 (21)	21.5	7.9	n/a
HR-E4QG58-02	11508	7.9 (34)	9.9 (21)	17.8	8.3	n/a
HR-2OJG5G-02	11509	13.2 (34)	5.2 (21)	18.4	8.3	n/a
HR-XQHF3S-02	11510	11.4 (34)	8.4 (21)	19.9	8.1	n/a
HR-HZEVEW-01	11601	13.7 (34)	11.8 (21)	25.5	7.4	n/a
HR-NUA24U-01	11602	18.4 (34)	7.8 (21)	26.2	7.4	n/a
HR-7TPQIX-01	11603	28.6 (34)	5.7 (21)	34.3	6.4	n/a
HR-ZSVUJZ-01	11604	15.8 (34)	4.7 (21)	20.4	8.1	n/a
HR-7RCNUR-01	11605	18.8 (34)	5.7 (21)	24.5	7.6	n/a
HR-MS1WXF-01	11606	17.6 (34)	6.6 (21)	24.3	7.6	n/a
HR-BHE007-01	11607	9.9 (34)	11.2 (21)	21.1	7.9	n/a
HR-TWGFAJ-01	11608	7.8 (34)	9.8 (21)	17.6	8.3	n/a
HR-ZOMGFC-01	11609	13.1 (34)	4.9 (21)	18.1	8.3	n/a
HR-OWCNSY-01	11610	11.3 (34)	8.4 (21)	19.7	8.1	n/a
HR-M438O7-01	11701	13.8 (34)	11.7 (21)	25.6	7.4	n/a
HR-XBCR17-01	11702	18.6 (34)	7.8 (21)	26.4	7.4	n/a
HR-L3QT9X-01	11703	28.7 (34)	5.6 (21)	34.4	6.4	n/a
HR-NJBREY-01	11704	15.8 (34)	4.6 (21)	20.4	8.1	n/a
HR-LUO4KV-01	11705	18.9 (34)	5.9 (21)	24.8	7.5	n/a
HR-6OKIQL-01	11706	17.8 (34)	6.6 (21)	24.3	7.6	n/a
HR-YJEXPQ-01	11707	9.9 (34)	11.2 (21)	21.2	7.9	n/a
HR-GEXBHQ-01	11708	7.9 (34)	9.8 (21)	17.7	8.3	n/a
HR-A34M90-01	11709	13.3 (34)	4.8 (21)	18.1	8.3	n/a
HR-GANEH2-01	11710	11.5 (34)	8.1 (21)	19.6	8.1	n/a
HR-8NRJC5-01	11801	14.0 (34)	11.7 (21)	25.6	7.4	n/a
HR-K2K4ER-01	11802	18.7 (34)	7.9 (21)	26.6	7.3	n/a
HR-FDG6VX-01	11803	28.9 (34)	5.7 (21)	34.5	6.4	n/a
HR-6ZJIYW-01	11804	15.9 (34)	4.7 (21)	20.6	8.0	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-G0TR2C-01	11805	19.3 (34)	5.9 (21)	25.2	7.4	n/a
HR-QQJESV-01	11806	17.9 (34)	6.5 (21)	24.4	7.6	n/a
HR-VHIDWQ-01	11807	10.0 (34)	11.3 (21)	21.3	7.9	n/a
HR-S1BKL8-01	11808	8.0 (34)	9.7 (21)	17.7	8.3	n/a
HR-GIAIW8-01	11809	13.4 (34)	4.8 (21)	18.2	8.3	n/a
HR-UZCPQG-01	11810	11.6 (34)	8.1 (21)	19.7	8.1	n/a
HR-4L3AIH-01	11901	14.1 (34)	11.5 (21)	25.6	7.4	n/a
HR-WWNI2G-01	11902	18.9 (34)	7.9 (21)	26.7	7.3	n/a
HR-1M25FN-01	11903	29.0 (34)	5.8 (21)	34.8	6.4	n/a
HR-L48GA1-01	11904	16.0 (34)	4.6 (21)	20.7	8.0	n/a
HR-RL5MK7-01	11905	19.2 (34)	6.0 (21)	25.1	7.4	n/a
HR-VEOSP7-01	11906	18.0 (34)	6.5 (21)	24.5	7.6	n/a
HR-ZLWKN3-01	11907	10.1 (34)	11.2 (21)	21.3	7.9	n/a
HR-HNSNRJ-01	11908	8.1 (34)	9.6 (21)	17.7	8.3	n/a
HR-DCXJH8-01	11909	13.5 (34)	4.8 (21)	18.3	8.3	n/a
HR-0PLB65-01	11910	11.8 (34)	8.2 (21)	20.0	8.1	n/a
HR-T1TBPA-01	12001	14.3 (34)	11.7 (21)	26.0	7.4	n/a
HR-16FR0L-01	12002	19.0 (34)	7.8 (21)	26.8	7.3	n/a
HR-XSQIG2-01	12003	29.1 (34)	5.8 (21)	35.0	6.4	n/a
HR-4P9H3R-01	12004	16.1 (34)	4.6 (21)	20.7	8.0	n/a
HR-A8ZJZ0-01	12005	19.5 (34)	5.4 (21)	24.9	7.5	n/a
HR-ZHSMEH-01	12006	18.2 (34)	6.5 (21)	24.7	7.5	n/a
HR-1Q7KOH-01	12007	10.2 (34)	11.3 (21)	21.6	7.9	n/a
HR-J4450I-01	12008	8.1 (34)	9.5 (21)	17.6	8.3	n/a
HR-CF16RM-01	12009	13.7 (34)	5.0 (21)	18.6	8.2	n/a
HR-MEM2ZR-01	12010	11.9 (34)	8.1 (21)	20.0	8.1	n/a
HR-V6L3ZG-01	12101	14.3 (34)	11.7 (21)	26.0	7.4	n/a
HR-8M98FR-01	12102	19.0 (34)	7.9 (21)	26.9	7.3	n/a
HR-KDNEIJ-01	12103	29.1 (34)	5.8 (21)	34.9	6.4	n/a

Summary of all dwellings

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HR-NZO96K-01	12104	16.2 (34)	4.6 (21)	20.8	8.0	n/a
HR-F4AWDD-01	12105	19.2 (34)	5.9 (21)	25.1	7.4	n/a
HR-PBA4DK-01	12106	18.1 (34)	6.5 (21)	24.7	7.5	n/a
HR-GS4Y3H-01	12107	10.2 (34)	11.3 (21)	21.5	7.9	n/a
HR-HFPWAC-01	12108	8.1 (34)	9.5 (21)	17.6	8.3	n/a
HR-7IDOKB-01	12109	13.7 (34)	4.8 (21)	18.4	8.3	n/a
HR-76Y7X2-01	12110	11.9 (34)	8.1 (21)	20.0	8.1	n/a
HR-T5UYR3-01	12201	14.4 (34)	11.6 (21)	26.0	7.4	n/a
HR-2L6IO2-01	12202	19.2 (34)	7.9 (21)	27.1	7.3	n/a
HR-1DRWR6-01	12203	29.2 (34)	6.0 (21)	35.1	6.4	n/a
HR-NNVMFK-01	12204	16.3 (34)	4.6 (21)	20.9	8.0	n/a
HR-2QV941-01	12205	19.4 (34)	5.9 (21)	25.3	7.4	n/a
HR-0V50R9-01	12206	18.2 (34)	6.5 (21)	24.8	7.5	n/a
HR-T8V9SN-01	12207	10.3 (34)	11.3 (21)	21.6	7.9	n/a
HR-HZLOLY-01	12208	8.2 (34)	9.4 (21)	17.6	8.3	n/a
HR-Z5XJOO-01	12209	13.8 (34)	4.9 (21)	18.8	8.2	n/a
HR-XC55V9-01	12210	12.1 (34)	7.7 (21)	19.8	8.1	n/a
HR-DKH16B-01	12301	14.5 (34)	11.6 (21)	26.1	7.4	n/a
HR-8Q20ML-01	12302	19.3 (34)	7.8 (21)	27.1	7.3	n/a
HR-EA80AC-01	12303	29.2 (34)	6.0 (21)	35.2	6.4	n/a
HR-465824-01	12304	16.4 (34)	4.7 (21)	21.0	7.9	n/a
HR-FGWH6Q-01	12305	19.4 (34)	5.9 (21)	25.4	7.4	n/a
HR-9N0T2I-01	12306	18.3 (34)	6.5 (21)	24.8	7.5	n/a
HR-7M40UN-01	12307	10.4 (34)	11.2 (21)	21.6	7.9	n/a
HR-VZKGLE-01	12308	8.3 (34)	9.3 (21)	17.7	8.3	n/a
HR-TSVIA5-01	12309	13.9 (34)	4.8 (21)	18.7	8.2	n/a
HR-B5TNWZ-01	12310	12.2 (34)	7.7 (21)	19.9	8.1	n/a
HR-52PZM3-01	12401	14.7 (34)	11.5 (21)	26.1	7.4	n/a
HR-TMPXAM-01	12402	19.4 (34)	7.9 (21)	27.3	7.3	n/a

Summary of all dwellings

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HR-RVBETP-01	12403	29.3 (34)	5.9 (21)	35.2	6.3	n/a
HR-R86P7Y-01	12404	16.4 (34)	4.9 (21)	21.3	7.9	n/a
HR-IVAV50-01	12405	19.8 (34)	5.4 (21)	25.1	7.4	n/a
HR-VZK4W0-01	12406	18.4 (34)	6.7 (21)	25.1	7.4	n/a
HR-DI5DH6-01	12407	10.5 (34)	11.2 (21)	21.6	7.9	n/a
HR-N9IX12-01	12408	8.4 (34)	9.4 (21)	17.8	8.3	n/a
HR-1NNW4J-01	12409	14.0 (34)	4.9 (21)	18.9	8.2	n/a
HR-XETALX-01	12410	12.3 (34)	7.5 (21)	19.9	8.1	n/a
HR-GJYVL7-01	12501	14.9 (34)	11.3 (21)	26.2	7.4	n/a
HR-SVVJUG-01	12502	19.6 (34)	7.9 (21)	27.5	7.3	n/a
HR-MR7BBR-01	12503	29.3 (34)	6.4 (21)	35.7	6.3	n/a
HR-2C6E0T-01	12504	16.5 (34)	5.2 (21)	21.7	7.9	n/a
HR-80C7WZ-01	12505	19.7 (34)	6.0 (21)	25.7	7.4	n/a
HR-GDSY2L-01	12506	18.6 (34)	6.8 (21)	25.4	7.4	n/a
HR-8L2HXX-01	12507	10.6 (34)	11.1 (21)	21.7	7.9	n/a
HR-DYNTOW-01	12508	8.5 (34)	9.4 (21)	18.0	8.3	n/a
HR-GE6FVS-01	12509	14.3 (34)	4.8 (21)	19.1	8.2	n/a
HR-ZXCE6G-01	12510	12.6 (34)	7.5 (21)	20.0	8.1	n/a
HR-N5TN86-01	12601	14.8 (34)	11.4 (21)	26.2	7.4	n/a
HR-YG95A1-01	12602	19.6 (34)	7.9 (21)	27.4	7.3	n/a
HR-1ZVBK5-01	12603	29.1 (34)	6.6 (21)	35.8	6.3	n/a
HR-G7CXXC-01	12604	16.3 (34)	5.3 (21)	21.6	7.9	n/a
HR-6DHLEE-01	12605	19.8 (34)	5.8 (21)	25.6	7.4	n/a
HR-82NTJE-01	12606	18.4 (34)	6.7 (21)	25.1	7.4	n/a
HR-M748S9-01	12607	10.5 (34)	11.0 (21)	21.5	7.9	n/a
HR-UZPU9C-01	12608	8.5 (34)	9.3 (21)	17.8	8.3	n/a
HR-BOTDKN-01	12609	14.2 (34)	5.0 (21)	19.2	8.2	n/a
HR-LSJJXC-01	12610	12.5 (34)	7.4 (21)	19.9	8.1	n/a
HR-I6410S-01	12701	14.9 (34)	11.3 (21)	26.2	7.4	n/a

Summary of all dwellings

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HR-N66HRT-01	12702	19.7 (34)	7.8 (21)	27.6	7.2	n/a
HR-X5KM1A-01	12703	29.1 (34)	6.7 (21)	35.8	6.3	n/a
HR-0PSJ51-01	12704	16.3 (34)	5.3 (21)	21.6	7.9	n/a
HR-BBYEZH-01	12705	19.8 (34)	5.9 (21)	25.7	7.4	n/a
HR-T8ZM2O-01	12706	18.5 (34)	6.6 (21)	25.1	7.4	n/a
HR-EWGM4W-01	12707	10.6 (34)	10.9 (21)	21.5	7.9	n/a
HR-TTA0YN-01	12708	8.6 (34)	9.2 (21)	17.8	8.3	n/a
HR-ZJOEE6-01	12709	14.3 (34)	5.0 (21)	19.3	8.2	n/a
HR-2X9KFJ-01	12710	12.6 (34)	7.3 (21)	19.9	8.1	n/a
HR-0T0TPK-01	12801	15.1 (34)	11.2 (21)	26.2	7.4	n/a
HR-9V441H-01	12802	19.9 (34)	7.8 (21)	27.7	7.2	n/a
HR-T8L7PC-01	12803	29.0 (34)	7.1 (21)	36.1	6.2	n/a
HR-2HUNJE-01	12804	16.3 (34)	6.2 (21)	22.4	7.8	n/a
HR-4ZX5IE-01	12805	19.8 (34)	6.3 (21)	26.1	7.4	n/a
HR-08QAJ9-01	12806	18.5 (34)	6.7 (21)	25.2	7.4	n/a
HR-YI5ZJL-01	12807	10.6 (34)	11.1 (21)	21.8	7.9	n/a
HR-EY7XW2-01	12808	8.6 (34)	9.4 (21)	18.0	8.3	n/a
HR-PVTCH9-01	12809	14.4 (34)	4.9 (21)	19.3	8.2	n/a
HR-SJRV1X-01	12810	12.8 (34)	7.7 (21)	20.4	8.1	n/a
HR-CZVBLG-01	12901	15.2 (34)	11.1 (21)	26.4	7.4	n/a
HR-T4HB02-01	12902	20.0 (34)	7.8 (21)	27.8	7.2	n/a
HR-6LFQB4-01	12903	28.3 (34)	7.5 (21)	35.7	6.3	n/a
HR-TGL6UZ-01	12904	16.1 (34)	6.5 (21)	22.6	7.8	n/a
HR-04DISR-01	12905	19.8 (34)	6.5 (21)	26.3	7.4	n/a
HR-HX2MNO-01	12906	18.6 (34)	6.7 (21)	25.3	7.4	n/a
HR-C45M6F-01	12907	10.7 (34)	11.0 (21)	21.7	7.9	n/a
HR-Q22ZAS-01	12908	8.7 (34)	9.3 (21)	18.1	8.3	n/a
HR-QYD9D9-01	12909	14.6 (34)	4.8 (21)	19.4	8.2	n/a
HR-4DWW0S-01	12910	12.9 (34)	7.5 (21)	20.4	8.1	n/a

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HR-YLYOI9-01	13001	15.2 (34)	11.3 (21)	26.5	7.3	n/a
HR-RSOW3W-01	13002	20.0 (34)	7.7 (21)	27.7	7.2	n/a
HR-WMI8KV-01	13003	27.1 (34)	7.8 (21)	35.0	6.4	n/a
HR-OASNZZ-01	13004	15.8 (34)	7.4 (21)	23.2	7.7	n/a
HR-97PSTC-01	13005	19.6 (34)	6.3 (21)	25.9	7.4	n/a
HR-1UNI8P-01	13006	18.4 (34)	6.8 (21)	25.2	7.4	n/a
HR-05ANMO-01	13007	10.6 (34)	11.0 (21)	21.6	7.9	n/a
HR-19EEUB-01	13008	8.7 (34)	9.3 (21)	18.0	8.3	n/a
HR-T4JN4S-01	13009	14.6 (34)	4.7 (21)	19.3	8.2	n/a
HR-HHHE8V-01	13010	12.9 (34)	7.4 (21)	20.3	8.1	n/a
HR-D9IB8E-01	13101	15.4 (34)	11.2 (21)	26.6	7.3	n/a
HR-UX2TXO-01	13102	20.1 (34)	7.7 (21)	27.8	7.2	n/a
HR-M87VZM-01	13103	25.7 (34)	9.6 (21)	35.3	6.3	n/a
HR-JJMQW8-01	13104	15.5 (34)	8.8 (21)	24.3	7.6	n/a
HR-4EH8P3-01	13105	19.5 (34)	6.6 (21)	26.2	7.4	n/a
HR-P63CP8-01	13106	18.3 (34)	6.6 (21)	24.9	7.5	n/a
HR-CFXU1K-01	13107	10.6 (34)	11.2 (21)	21.8	7.9	n/a
HR-GIBJ9J-01	13108	8.8 (34)	9.3 (21)	18.2	8.3	n/a
HR-6MFYD9-01	13109	14.7 (34)	4.8 (21)	19.6	8.1	n/a
HR-LK426V-01	13110	13.1 (34)	7.4 (21)	20.4	8.1	n/a
HR-V0KPRL-01	13201	15.4 (34)	11.2 (21)	26.5	7.3	n/a
HR-5TV3I0-01	13202	20.2 (34)	7.6 (21)	27.8	7.2	n/a
HR-AF8VDO-01	13203	24.2 (34)	10.2 (21)	34.5	6.4	n/a
HR-OKDK0R-01	13204	14.7 (34)	9.8 (21)	24.5	7.6	n/a
HR-XO96YJ-01	13205	19.3 (34)	6.7 (21)	25.9	7.4	n/a
HR-2D6HOS-01	13206	18.1 (34)	7.1 (21)	25.2	7.4	n/a
HR-ZHOWJH-01	13207	10.6 (34)	11.7 (21)	22.2	7.8	n/a
HR-25TFXB-01	13208	8.8 (34)	9.3 (21)	18.1	8.3	n/a
HR-CKWQLE-01	13209	14.7 (34)	4.8 (21)	19.5	8.1	n/a

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HR-0THFG9-01	13210	13.1 (34)	7.4 (21)	20.4	8.1	n/a
HR-HLK59H-01	13301	22.3 (34)	11.3 (21)	33.7	6.5	n/a
HR-GEELLL-01	13302	25.3 (34)	8.4 (21)	33.7	6.5	n/a
HR-F9XL3U-01	13303	25.0 (34)	11.6 (21)	36.5	6.2	n/a
HR-BNH2WG-01	13304	22.0 (34)	13.1 (21)	35.0	6.4	n/a
HR-WLZ9UO-01	13305	19.2 (34)	6.8 (21)	26.0	7.4	n/a
HR-3Y29US-01	13306	17.9 (34)	7.5 (21)	25.4	7.4	n/a
HR-86CQ2N-01	13307	10.6 (34)	11.9 (21)	22.5	7.8	n/a
HR-MH4OIO-01	13308	8.9 (34)	9.3 (21)	18.2	8.3	n/a
HR-UETMTU-01	13309	14.8 (34)	4.7 (21)	19.6	8.1	n/a
HR-U02SAV-01	13310	13.2 (34)	7.4 (21)	20.6	8.0	n/a
HR-ALAW4I-01	13401	19.9 (34)	7.0 (21)	26.9	7.3	n/a
HR-ZE4HW1-01	13402	17.6 (34)	8.0 (21)	25.6	7.4	n/a
HR-0P7EXL-01	13403	10.6 (34)	12.0 (21)	22.6	7.8	n/a
HR-233FJU-01	13404	9.0 (34)	9.3 (21)	18.3	8.3	n/a
HR-B3P455-01	13405	14.9 (34)	4.9 (21)	19.8	8.1	n/a
HR-W21VAM-01	13406	13.3 (34)	7.4 (21)	20.6	8.0	n/a
HR-W95I4A-01	13501	25.6 (34)	8.7 (21)	34.3	6.4	n/a
HR-TRYKDB-01	13502	24.7 (34)	9.5 (21)	34.2	6.4	n/a
HR-H6WD7Z-01	13503	20.5 (34)	15.9 (21)	36.4	6.2	n/a
HR-LVDSLU-01	13505	25.3 (34)	6.6 (21)	31.9	6.8	n/a
HR-FT7MNH-01	13506	23.3 (34)	9.5 (21)	32.8	6.6	n/a
HR-KSIUGA-02	1701	18.0 (34)	13.4 (21)	31.5	6.8	n/a
HR-D1Q4CO-02	1702	26.6 (34)	7.1 (21)	33.8	6.5	n/a
HR-T5GNWS-02	1703	27.3 (34)	3.4 (21)	30.7	6.9	n/a
HR-FF3Z3Y-02	1704	22.2 (34)	5.6 (21)	27.9	7.2	n/a
HR-OVJR87-02	1705	24.9 (34)	6.1 (21)	31.0	6.9	n/a
HR-FYOJ0D-02	1706	13.2 (34)	11.7 (21)	24.9	7.5	n/a
HR-3X58VD-02	1707	9.5 (34)	9.7 (21)	19.2	8.2	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-04M0W8-02	1708	22.4 (34)	4.0 (21)	26.3	7.4	n/a
HR-F3TGE6-02	1709	8.0 (34)	8.6 (21)	16.6	8.4	n/a
HR-HEY958-02	1801	12.2 (34)	12.5 (21)	24.6	7.5	n/a
HR-4LAVXI-02	1802	16.8 (34)	8.5 (21)	25.2	7.4	n/a
HR-1281QZ-02	1803	27.0 (34)	5.9 (21)	32.9	6.6	n/a
HR-TU7WOE-02	1804	14.4 (34)	4.4 (21)	18.8	8.2	n/a
HR-5D7NRP-02	1805	18.5 (34)	5.9 (21)	24.4	7.6	n/a
HR-E63K0C-02	1806	16.1 (34)	7.4 (21)	23.5	7.7	n/a
HR-O5KPYE-02	1807	9.1 (34)	11.3 (21)	20.4	8.1	n/a
HR-ISPAZ5-02	1808	7.0 (34)	10.0 (21)	17.1	8.4	n/a
HR-WMEBKV-02	1809	11.7 (34)	5.4 (21)	17.0	8.4	n/a
HR-1IY0VH-02	1810	9.9 (34)	8.5 (21)	18.4	8.3	n/a
HR-KLJZX3-02	1901	12.5 (34)	12.3 (21)	24.8	7.5	n/a
HR-T2OUZU-02	1902	17.1 (34)	8.1 (21)	25.1	7.4	n/a
HR-9GMKI8-02	1903	27.1 (34)	5.9 (21)	33.0	6.6	n/a
HR-149W7K-02	1904	14.6 (34)	4.4 (21)	19.0	8.2	n/a
HR-E2QK16-02	1905	17.6 (34)	5.8 (21)	23.4	7.7	n/a
HR-QJJZRA-02	1906	16.4 (34)	7.3 (21)	23.6	7.7	n/a
HR-1HDT1S-02	1907	9.3 (34)	11.3 (21)	20.6	8.0	n/a
HR-PLKQ0G-02	1908	7.1 (34)	10.1 (21)	17.2	8.4	n/a
HR-NPT7CU-02	1909	12.0 (34)	5.4 (21)	17.3	8.4	n/a
HR-WCV5BC-02	1910	10.1 (34)	8.2 (21)	18.3	8.3	n/a
HR-E51PBX-01	21001	29.8 (34)	7.0 (21)	36.8	6.1	n/a
HR-TBLVQB-01	21002	23.9 (34)	8.3 (21)	32.2	6.7	n/a
HR-HSZ4AJ-01	21003	12.6 (34)	8.2 (21)	20.8	8.0	n/a
HR-06BWIP-01	21004	17.3 (34)	9.4 (21)	26.7	7.3	n/a
HR-OLUQ8D-01	21005	10.1 (34)	15.3 (21)	25.4	7.4	n/a
HR-MYX7PY-01	21006	16.5 (34)	4.9 (21)	21.3	7.9	n/a
HR-PJHAIC-01	21007	26.0 (34)	4.2 (21)	30.2	6.9	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-LA57XR-01	21008	21.9 (34)	3.5 (21)	25.3	7.4	n/a
HR-9V5B3O-01	21105	10.4 (34)	15.3 (21)	25.7	7.4	n/a
HR-75Z3D2-01	21107	26.4 (34)	4.2 (21)	30.5	6.9	n/a
HR-OT8FT9-01	21202	23.5 (34)	8.6 (21)	32.1	6.7	n/a
HR-9L8VQW-01	21204	17.8 (34)	9.2 (21)	27.0	7.3	n/a
HR-ROAYDD-01	21302	23.7 (34)	8.2 (21)	31.9	6.8	n/a
HR-0GRF2I-01	21401	29.5 (34)	7.1 (21)	36.6	6.2	n/a
HR-SWGAAC-01	21504	18.6 (34)	9.4 (21)	28.0	7.2	n/a
HR-279UKI-01	21601	30.4 (34)	7.5 (21)	38.0	6.0	n/a
HR-ACG0P4-01	21602	21.7 (34)	8.0 (21)	29.7	7.0	n/a
HR-EV9TKJ-01	21603	14.0 (34)	8.7 (21)	22.7	7.8	n/a
HR-TS0266-01	21604	18.6 (34)	9.1 (21)	27.8	7.2	n/a
HR-0XKDIW-01	21605	11.0 (34)	15.2 (21)	26.2	7.4	n/a
HR-JHS2WV-01	21606	17.4 (34)	5.0 (21)	22.4	7.8	n/a
HR-GOAMDO-01	21607	24.6 (34)	3.9 (21)	28.5	7.2	n/a
HR-CC40TW-01	21608	22.8 (34)	3.2 (21)	26.0	7.4	n/a
HR-YUY7WG-01	21701	30.3 (34)	7.5 (21)	37.9	6.0	n/a
HR-B85L2Y-01	21702	24.3 (34)	8.8 (21)	33.1	6.6	n/a
HR-06KP9R-01	21703	14.3 (34)	8.7 (21)	23.0	7.7	n/a
HR-8A3NEY-01	21704	18.6 (34)	9.1 (21)	27.7	7.2	n/a
HR-LL6U6C-01	21706	17.3 (34)	5.0 (21)	22.3	7.8	n/a
HR-A00C9E-01	21707	24.6 (34)	4.1 (21)	28.7	7.1	n/a
HR-BAVYDB-01	21708	22.7 (34)	3.1 (21)	25.8	7.4	n/a
HR-GHO72J-01	21801	30.4 (34)	7.4 (21)	37.8	6.0	n/a
HR-2HC158-01	21804	18.7 (34)	8.9 (21)	27.7	7.2	n/a
HR-24RCGF-01	21805	10.9 (34)	15.1 (21)	26.0	7.4	n/a
HR-6TKCK5-01	21806	17.3 (34)	5.0 (21)	22.3	7.8	n/a
HR-RNTJPJ-01	21808	22.8 (34)	3.2 (21)	26.0	7.4	n/a
HR-TF06WA-01	21901	30.4 (34)	7.4 (21)	37.8	6.0	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-XUXNYD-01	21904	23.0 (34)	3.1 (21)	26.2	7.4	n/a
HR-ER25K4-01	21906	17.4 (34)	5.0 (21)	22.4	7.8	n/a
HR-8TKBTT-01	22002	24.7 (34)	8.4 (21)	33.1	6.6	n/a
HR-XGJFQO-01	22006	17.6 (34)	5.1 (21)	22.6	7.8	n/a
HR-SZU630-01	22008	23.2 (34)	3.2 (21)	26.4	7.4	n/a
HR-RZI3VO-01	22101	30.2 (34)	7.4 (21)	37.6	6.1	n/a
HR-SIFSQJ-01	22102	24.7 (34)	8.3 (21)	33.1	6.6	n/a
HR-17V7OT-01	22104	19.0 (34)	8.8 (21)	27.9	7.2	n/a
HR-RN1IMQ-01	22105	11.1 (34)	14.8 (21)	26.0	7.4	n/a
HR-KZ4OGO-01	22106	17.5 (34)	5.2 (21)	22.7	7.8	n/a
HR-W2T6XP-01	22107	24.8 (34)	4.1 (21)	28.9	7.1	n/a
HR-SCZ774-01	22108	23.0 (34)	3.2 (21)	26.2	7.4	n/a
HR-Q74MK2-01	22201	30.0 (34)	6.9 (21)	36.8	6.1	n/a
HR-90JRFX-01	22202	24.9 (34)	8.5 (21)	33.4	6.6	n/a
HR-U40SGK-01	22203	14.4 (34)	8.5 (21)	22.9	7.8	n/a
HR-6EXBPU-01	22205	11.2 (34)	14.6 (21)	25.9	7.4	n/a
HR-IHYCKN-01	22206	17.7 (34)	5.3 (21)	23.0	7.8	n/a
HR-1FAGDU-01	22301	29.9 (34)	7.6 (21)	37.5	6.1	n/a
HR-8CWFC4-01	22303	14.7 (34)	8.2 (21)	22.9	7.8	n/a
HR-VK0RL5-01	22304	19.3 (34)	8.7 (21)	28.0	7.2	n/a
HR-CUCWRB-01	22305	11.4 (34)	14.7 (21)	26.0	7.4	n/a
HR-J1R2QI-01	22306	17.9 (34)	5.3 (21)	23.3	7.7	n/a
HR-92IP4I-01	22307	25.0 (34)	4.1 (21)	29.0	7.1	n/a
HR-MSX9XF-01	22308	23.1 (34)	3.2 (21)	26.4	7.4	n/a
HR-PX8PTE-01	22401	30.0 (34)	7.7 (21)	37.7	6.0	n/a
HR-XSQOB6-01	22402	25.1 (34)	8.9 (21)	34.0	6.4	n/a
HR-G0KK8G-01	22403	14.8 (34)	8.3 (21)	23.1	7.7	n/a
HR-EWJWGG-01	22405	11.6 (34)	14.7 (21)	26.3	7.4	n/a
HR-FE8RP4-01	22406	18.1 (34)	5.6 (21)	23.8	7.7	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-E00VZP-01	22408	23.1 (34)	3.2 (21)	26.3	7.4	n/a
HR-7NYXUU-01	22501	29.9 (34)	6.8 (21)	36.7	6.2	n/a
HR-LZPIMF-01	22502	25.5 (34)	8.7 (21)	34.2	6.4	n/a
HR-V78YV3-01	22503	15.1 (34)	8.5 (21)	23.6	7.7	n/a
HR-6OP5D5-01	22504	19.8 (34)	8.8 (21)	28.6	7.1	n/a
HR-LUIEXK-01	22505	12.2 (34)	14.4 (21)	26.6	7.3	n/a
HR-P6OY27-01	22506	18.4 (34)	5.5 (21)	23.9	7.6	n/a
HR-L06M9E-01	22507	25.2 (34)	4.2 (21)	29.5	7.1	n/a
HR-QYVOJH-01	22508	23.0 (34)	3.3 (21)	26.3	7.4	n/a
HR-VKBC2G-01	22602	25.1 (34)	8.6 (21)	33.8	6.5	n/a
HR-LJN6AV-01	22606	17.9 (34)	5.5 (21)	23.4	7.7	n/a
HR-49AV5H-01	22701	29.6 (34)	7.4 (21)	37.0	6.1	n/a
HR-923J4J-01	22702	25.5 (34)	8.3 (21)	33.8	6.5	n/a
HR-6H837R-01	22703	14.9 (34)	8.2 (21)	23.1	7.7	n/a
HR-G1EDC9-01	22706	18.2 (34)	5.8 (21)	24.0	7.6	n/a
HR-CIZB32-01	22801	29.4 (34)	7.5 (21)	36.9	6.1	n/a
HR-79YOOI-01	22802	25.5 (34)	8.7 (21)	34.2	6.4	n/a
HR-GWG5U9-01	22804	19.9 (34)	8.7 (21)	28.6	7.1	n/a
HR-1ZM31B-01	22806	17.9 (34)	5.9 (21)	23.9	7.6	n/a
HR-MCXNLI-01	22808	21.3 (34)	3.9 (21)	25.1	7.4	n/a
HR-2L2U2W-01	22901	29.5 (34)	7.5 (21)	37.0	6.1	n/a
HR-9L6LQD-01	22903	15.4 (34)	8.7 (21)	24.2	7.6	n/a
HR-KZ5RJR-01	22906	17.6 (34)	6.0 (21)	23.6	7.7	n/a
HR-9X3KG5-01	23002	25.7 (34)	9.1 (21)	34.8	6.4	n/a
HR-M1V5LP-01	23003	15.3 (34)	8.2 (21)	23.5	7.7	n/a
HR-RBU8LZ-01	23004	20.1 (34)	8.4 (21)	28.4	7.2	n/a
HR-FVP9PH-01	23005	12.3 (34)	14.3 (21)	26.6	7.3	n/a
HR-6JJ3KJ-01	23006	16.9 (34)	6.1 (21)	23.0	7.7	n/a
HR-YNH3EO-01	23007	23.4 (34)	5.3 (21)	28.8	7.1	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-9BFSK2-01	23101	28.8 (34)	7.2 (21)	36.0	6.3	n/a
HR-DPEO8Q-01	23102	25.7 (34)	8.6 (21)	34.3	6.4	n/a
HR-FULSAL-01	23104	20.2 (34)	8.4 (21)	28.6	7.1	n/a
HR-62NY4B-01	23105	12.4 (34)	14.0 (21)	26.4	7.4	n/a
HR-WWV9MN-01	23108	18.0 (34)	4.5 (21)	22.6	7.8	n/a
HR-1VNPOU-01	23201	27.8 (34)	7.0 (21)	34.8	6.4	n/a
HR-NCX3G5-01	23202	27.8 (34)	9.1 (21)	36.9	6.1	n/a
HR-DGZ2VM-01	23204	26.3 (34)	8.1 (21)	34.5	6.4	n/a
HR-CLZP81-01	23208	13.8 (34)	4.6 (21)	18.4	8.3	n/a
HR-QWCBLY-01	23301	27.6 (34)	8.1 (21)	35.8	6.3	n/a
HR-TB0UTQ-01	23302	29.2 (34)	8.1 (21)	37.3	6.1	n/a
HR-RTU1WL-01	23303	27.2 (34)	8.5 (21)	35.7	6.3	n/a
HR-T898XZ-01	23304	22.5 (34)	6.7 (21)	29.2	7.1	n/a
HR-AURHQQ-01	2701	31.4 (34)	6.3 (21)	37.8	6.0	n/a
HR-4962QB-01	2702	21.0 (34)	9.0 (21)	30.0	6.9	n/a
HR-8L6YMR-01	2703	12.4 (34)	8.9 (21)	21.2	7.9	n/a
HR-VS4V9D-01	2704	14.8 (34)	9.8 (21)	24.6	7.5	n/a
HR-NATXKU-01	2705	8.1 (34)	18.3 (21)	26.4	7.4	n/a
HR-XQMSJ0-01	2706	15.5 (34)	5.0 (21)	20.5	8.0	n/a
HR-AV2LQ3-01	2707	31.5 (34)	3.4 (21)	34.9	6.4	n/a
HR-PYMDC1-01	2708	32.3 (34)	3.0 (21)	35.4	6.3	n/a
HR-Q4U3Y7-01	2801	29.4 (34)	6.9 (21)	36.3	6.2	n/a
HR-R6JD5T-01	2802	23.4 (34)	8.3 (21)	31.8	6.8	n/a
HR-8NJKNA-01	2803	13.8 (34)	8.0 (21)	21.9	7.9	n/a
HR-AM6SZ2-01	2804	16.8 (34)	9.9 (21)	26.7	7.3	n/a
HR-ZC6KGL-01	2805	9.8 (34)	15.8 (21)	25.6	7.4	n/a
HR-6LZO0Z-01	2806	16.1 (34)	4.9 (21)	21.0	8.0	n/a
HR-HPZZMN-01	2807	25.5 (34)	4.3 (21)	29.7	7.0	n/a
HR-VZY6IZ-01	2808	21.7 (34)	3.5 (21)	25.2	7.4	n/a



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m².yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Rating
HR-B7RGKI-01	2901	29.7 (34)	7.1 (21)	36.8	6.2	n/a
HR-8SIO1B-01	2902	23.7 (34)	8.3 (21)	32.0	6.7	n/a
HR-O6Z509-01	2903	12.8 (34)	8.2 (21)	21.1	7.9	n/a
HR-7X127S-01	2904	17.2 (34)	10.1 (21)	27.2	7.3	n/a
HR-RKNNNW-01	2905	10.0 (34)	15.4 (21)	25.5	7.4	n/a
HR-Q3JRL2-01	2906	16.4 (34)	4.9 (21)	21.2	7.9	n/a
HR-B976FT-01	2907	25.8 (34)	4.3 (21)	30.1	6.9	n/a
HR-N488XS-01	2908	21.8 (34)	3.5 (21)	25.3	7.4	n/a
Averages	533x (Total)	17.9	7.8	25.7	7.4	n/a
Maximum Loads and Minimum Ratings		32.3	18.3	38.0	6.0	n/a

Explanatory notes

About the ratings

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

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the energy loads and societal cost. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy production and storage to estimate the home's societal cost. For more details about an individual dwelling's assessment, refer to the individual dwelling's NatHERS Certificate (accessible via link).

Accredited Assessors

For high quality NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

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

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in certificates is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy use, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

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

Nationwide House Energy Rating Scheme® Class 2 Summary

NatHERS® Certificate No. #HR-9AFAZV-01

Generated on 05 Nov 2024 using Hero 4.1

Property

Address 1 Crescent Street, Holroyd, NSW, 2142
Lot/DP 700/-/DP1241836
NatHERS climate zone 56 - Mascot AMO



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Assessor Accrediting Organisation HERA

Verification

To verify this certificate, scan the QR code or visit <http://www.hero-software.com.au/pdf/HR-9AFAZV-01>.
When using either link, ensure you are visiting <http://www.hero-software.com.au>



National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

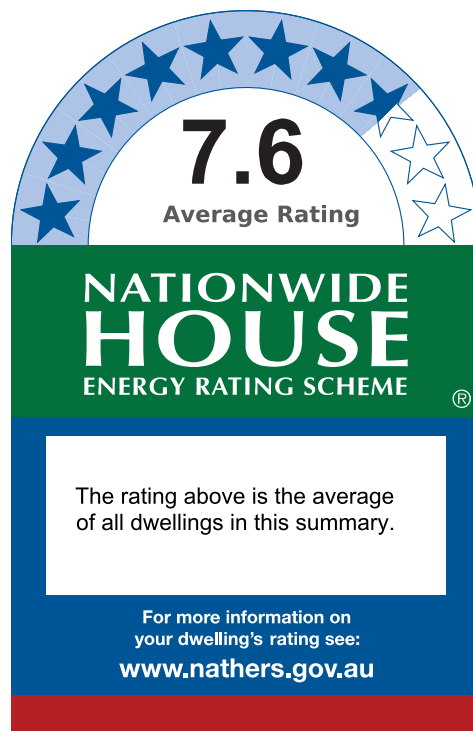
The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m².yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Rating
HR-P7KTWS-01	31001	21.2 (34)	10.2 (21)	31.5	6.8	n/a
HR-9O88EU-01	31002	10.7 (34)	7.6 (21)	18.3	8.3	n/a
HR-QGCM8R-01	31003	9.8 (34)	6.6 (21)	16.4	8.4	n/a

Thermal performance Star rating



NCC heating and cooling maximum loads MJ/m².yr

Limits taken from ABCB Standard 2022

	Heating	Cooling
Average load	17.4	7.1
Maximum load	32.2	11.3
Average limit	28.1	20.0
Maximum limit	34.4	21.4

Whole of Home performance rating

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

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-KD3I49-01	31004	12.4 (34)	4.0 (21)	16.4	8.4	n/a
HR-WYD2B0-01	31005	8.9 (34)	7.9 (21)	16.8	8.4	n/a
HR-BA2E0P-01	31006	23.5 (34)	8.6 (21)	32.2	6.7	n/a
HR-8CKDBE-01	31007	23.6 (34)	4.3 (21)	27.9	7.2	n/a
HR-4EMS8V-01	31101	21.5 (34)	10.3 (21)	31.8	6.8	n/a
HR-8R8LKZ-01	31102	10.9 (34)	7.4 (21)	18.3	8.3	n/a
HR-39IPL0-01	31103	10.1 (34)	6.5 (21)	16.7	8.4	n/a
HR-6ID83W-01	31104	12.7 (34)	3.9 (21)	16.6	8.4	n/a
HR-STP0TF-01	31105	9.1 (34)	7.9 (21)	17.0	8.4	n/a
HR-YXBUJ4-01	31106	23.9 (34)	8.6 (21)	32.5	6.7	n/a
HR-APGSN8-01	31107	23.8 (34)	4.3 (21)	28.1	7.2	n/a
HR-Q5GNLD-01	31201	21.7 (34)	10.2 (21)	31.9	6.8	n/a
HR-S4VXL0-01	31202	11.1 (34)	7.5 (21)	18.6	8.2	n/a
HR-Y9VHGQ-01	31203	10.3 (34)	6.3 (21)	16.6	8.4	n/a
HR-C888ZG-01	31204	12.8 (34)	3.8 (21)	16.6	8.4	n/a
HR-XHWDDW-01	31205	9.2 (34)	8.0 (21)	17.2	8.4	n/a
HR-XQOZUJ-01	31206	24.1 (34)	8.5 (21)	32.6	6.7	n/a
HR-KUFIWI-01	31207	23.9 (34)	4.4 (21)	28.3	7.2	n/a
HR-JNUAEJ-01	31301	21.9 (34)	10.1 (21)	32.0	6.8	n/a
HR-VMN4N5-01	31302	11.2 (34)	7.6 (21)	18.8	8.2	n/a
HR-G2ZTWP-01	31303	10.4 (34)	6.4 (21)	16.7	8.4	n/a
HR-7GJQJJ-01	31304	12.9 (34)	3.8 (21)	16.8	8.4	n/a
HR-EEQKJQ-01	31305	9.3 (34)	8.0 (21)	17.3	8.4	n/a
HR-MEU2BU-01	31306	24.3 (34)	8.5 (21)	32.8	6.7	n/a
HR-MIKIFV-01	31307	24.1 (34)	4.4 (21)	28.5	7.2	n/a
HR-ASW21O-01	31401	22.2 (34)	10.2 (21)	32.4	6.7	n/a
HR-9ZIJE4-01	31402	11.4 (34)	7.5 (21)	18.9	8.2	n/a
HR-KWBUY1-01	31403	10.6 (34)	6.3 (21)	16.8	8.4	n/a
HR-HGH60G-01	31404	13.2 (34)	3.8 (21)	17.0	8.4	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-CHIUAW-01	31405	9.5 (34)	8.1 (21)	17.6	8.3	n/a
HR-BOLMRG-01	31406	24.6 (34)	8.5 (21)	33.1	6.6	n/a
HR-PP3024-01	31407	24.3 (34)	4.4 (21)	28.7	7.1	n/a
HR-EBKKDL-01	31501	22.4 (34)	10.2 (21)	32.6	6.7	n/a
HR-DV07ZQ-01	31502	11.8 (34)	7.6 (21)	19.3	8.2	n/a
HR-H9OS15-01	31503	10.8 (34)	6.3 (21)	17.1	8.4	n/a
HR-BZUICO-01	31504	13.4 (34)	3.8 (21)	17.2	8.4	n/a
HR-D34EIC-01	31505	9.7 (34)	8.0 (21)	17.7	8.3	n/a
HR-YMMQW5-01	31506	24.9 (34)	8.5 (21)	33.4	6.6	n/a
HR-U8KMXD-01	31507	24.6 (34)	4.4 (21)	29.0	7.1	n/a
HR-3YHP9F-01	31601	22.5 (34)	10.1 (21)	32.5	6.7	n/a
HR-951620-01	31602	12.1 (34)	7.6 (21)	19.7	8.1	n/a
HR-4TTPPN-01	31603	10.9 (34)	6.1 (21)	17.0	8.4	n/a
HR-1UONGA-01	31604	13.4 (34)	3.8 (21)	17.2	8.4	n/a
HR-R1OVIN-01	31605	9.7 (34)	7.8 (21)	17.5	8.4	n/a
HR-KMAUNE-01	31606	24.9 (34)	9.2 (21)	34.1	6.4	n/a
HR-P3B2PT-01	31607	24.7 (34)	4.2 (21)	29.0	7.1	n/a
HR-X4L3P7-01	31701	22.7 (34)	10.0 (21)	32.7	6.7	n/a
HR-550U36-01	31702	12.2 (34)	7.5 (21)	19.8	8.1	n/a
HR-9RYJE5-01	31703	11.0 (34)	6.1 (21)	17.1	8.4	n/a
HR-6S7NAR-01	31704	13.6 (34)	3.8 (21)	17.4	8.4	n/a
HR-5HF5D2-01	31705	9.8 (34)	7.7 (21)	17.5	8.3	n/a
HR-SF1549-01	31706	25.3 (34)	9.3 (21)	34.6	6.4	n/a
HR-8JN3J0-01	31707	24.9 (34)	4.2 (21)	29.1	7.1	n/a
HR-4GFQ4A-01	31801	22.8 (34)	10.1 (21)	32.9	6.6	n/a
HR-75XA4N-01	31802	12.4 (34)	7.5 (21)	19.9	8.1	n/a
HR-BQN0LA-01	31803	11.1 (34)	6.0 (21)	17.1	8.4	n/a
HR-GBL7WW-01	31804	13.7 (34)	3.8 (21)	17.5	8.4	n/a
HR-YKLUDC-01	31805	9.9 (34)	7.7 (21)	17.6	8.3	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-JWPO1K-01	31806	25.3 (34)	9.1 (21)	34.3	6.4	n/a
HR-1K8YIC-01	31807	25.1 (34)	4.2 (21)	29.3	7.1	n/a
HR-VIXOA3-01	31901	23.0 (34)	10.2 (21)	33.2	6.6	n/a
HR-19E0VF-01	31902	12.5 (34)	7.5 (21)	19.9	8.1	n/a
HR-KFCZL0-01	31903	11.2 (34)	6.0 (21)	17.2	8.4	n/a
HR-FZ5I4U-01	31904	13.8 (34)	3.8 (21)	17.6	8.3	n/a
HR-UN4GMG-01	31905	10.0 (34)	7.8 (21)	17.8	8.3	n/a
HR-ZVIFH8-01	31906	25.4 (34)	9.0 (21)	34.4	6.4	n/a
HR-7WJD9F-01	31907	25.3 (34)	4.2 (21)	29.5	7.1	n/a
HR-B1Z85Z-01	32001	23.1 (34)	10.1 (21)	33.3	6.6	n/a
HR-2FG5LU-01	32002	12.6 (34)	7.4 (21)	20.0	8.1	n/a
HR-TY5TK4-01	32003	11.4 (34)	6.2 (21)	17.5	8.3	n/a
HR-UEYQ9P-01	32004	13.9 (34)	3.8 (21)	17.7	8.3	n/a
HR-8VKVII-01	32005	10.1 (34)	7.8 (21)	18.0	8.3	n/a
HR-P26ZRX-01	32006	25.6 (34)	9.0 (21)	34.6	6.4	n/a
HR-4T9GY5-01	32007	25.4 (34)	4.3 (21)	29.7	7.0	n/a
HR-NE9MHJ-01	32101	23.3 (34)	9.8 (21)	33.1	6.6	n/a
HR-5HQF2M-01	32102	12.7 (34)	7.5 (21)	20.2	8.1	n/a
HR-9DQ2WH-01	32103	11.5 (34)	6.2 (21)	17.6	8.3	n/a
HR-S5V3S9-01	32104	14.1 (34)	3.9 (21)	17.9	8.3	n/a
HR-ZUBGAD-01	32105	10.3 (34)	7.7 (21)	17.9	8.3	n/a
HR-YL1769-01	32106	25.8 (34)	9.0 (21)	34.8	6.4	n/a
HR-POIWL6-01	32107	25.6 (34)	4.1 (21)	29.8	7.0	n/a
HR-7TUGVQ-01	32201	23.4 (34)	9.9 (21)	33.3	6.6	n/a
HR-ELPSL3-01	32202	12.8 (34)	7.5 (21)	20.3	8.1	n/a
HR-AMKWF4-01	32203	11.6 (34)	6.1 (21)	17.7	8.3	n/a
HR-IUMDIN-01	32204	14.2 (34)	3.9 (21)	18.1	8.3	n/a
HR-MO65VZ-01	32205	10.3 (34)	7.7 (21)	18.1	8.3	n/a
HR-D9Q5BM-01	32206	27.0 (34)	10.6 (21)	37.6	6.1	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-U2UOSB-01	32207	25.9 (34)	4.1 (21)	30.0	7.0	n/a
HR-ZULVTQ-01	32301	25.5 (34)	10.9 (21)	36.4	6.2	n/a
HR-34V3C6-01	32302	24.6 (34)	9.3 (21)	33.9	6.5	n/a
HR-50M4I9-01	32303	24.4 (34)	8.2 (21)	32.5	6.7	n/a
HR-CX8MGN-01	32304	26.5 (34)	5.8 (21)	32.3	6.7	n/a
HR-TSNNMM-01	32305	19.4 (34)	9.6 (21)	29.0	7.1	n/a
HR-U3HYWS-01	32306	25.9 (34)	9.9 (21)	35.8	6.3	n/a
HR-0058AI-01	32307	30.7 (34)	5.1 (21)	35.8	6.3	n/a
HR-AKKU9E-01	3701	25.3 (34)	10.5 (21)	35.8	6.3	n/a
HR-WRS61X-01	3702	21.4 (34)	6.0 (21)	27.3	7.3	n/a
HR-3LIXOV-01	3703	21.8 (34)	3.5 (21)	25.3	7.4	n/a
HR-FL86GZ-01	3704	14.2 (34)	7.4 (21)	21.6	7.9	n/a
HR-9T2W3F-01	3705	25.7 (34)	6.8 (21)	32.5	6.7	n/a
HR-DRYK53-01	3706	32.2 (34)	3.7 (21)	36.0	6.3	n/a
HR-V02N1U-01	3801	18.7 (34)	11.3 (21)	29.9	7.0	n/a
HR-6SNOAY-01	3802	8.6 (34)	8.9 (21)	17.5	8.4	n/a
HR-AKOOK5-01	3803	10.8 (34)	6.2 (21)	17.0	8.4	n/a
HR-NWK45F-01	3804	10.3 (34)	4.1 (21)	14.4	8.7	n/a
HR-1BENF9-01	3805	7.2 (34)	8.1 (21)	15.3	8.6	n/a
HR-KMBMU1-01	3806	20.8 (34)	9.2 (21)	30.0	7.0	n/a
HR-CNLMHP-01	3807	21.2 (34)	4.4 (21)	25.7	7.4	n/a
HR-D0YIIW-01	3901	20.9 (34)	10.3 (21)	31.2	6.8	n/a
HR-JUTEIW-01	3902	10.3 (34)	7.3 (21)	17.7	8.3	n/a
HR-6KWY9B-01	3903	9.6 (34)	6.7 (21)	16.3	8.4	n/a
HR-S5922Q-01	3904	12.1 (34)	4.1 (21)	16.2	8.4	n/a
HR-OP0ZDV-01	3905	8.7 (34)	8.0 (21)	16.7	8.4	n/a
HR-AR00YJ-01	3906	23.2 (34)	8.9 (21)	32.0	6.7	n/a
HR-H7GM84-01	3907	23.6 (34)	4.3 (21)	27.9	7.2	n/a
Averages	118x (Total)	17.4	7.1	24.5	7.6	n/a



Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m².yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Rating
Maximum Loads and Minimum Ratings		32.2	11.3	37.6	6.1	n/a

Explanatory notes

About the ratings

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

NatHERS ratings use computer modelling to evaluate a home’s energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the energy loads and societal cost. The thermal performance star rating uses the home’s building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home’s appliances and onsite energy production and storage to estimate the homes societal cost.

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

Accredited Assessors

For high quality NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

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

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in certificates is entered by the assessor. It is the assessor’s responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy use, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling’s design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

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

BASIX[®]Certificate

Building Sustainability Index www.basix.nsw.gov.au

Multi Dwelling

Certificate number: 1771808M_03

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.basix.nsw.gov.au

Secretary

Date of issue: Friday, 22 November 2024

To be valid, this certificate must be submitted with a development application or lodged with a complying development certificate application within 3 months of the date of issue.



Project summary

Project name	1 Crescent Street Holroyd - Phase 1 (T1,T2)_03
Street address	1 CRESCENT STREET HOLROYD 2142
Local Government Area	CUMBERLAND
Plan type and plan number	Deposited Plan 1241836
Lot No.	700
Section no.	-
No. of residential flat buildings	2
Residential flat buildings: no. of dwellings	533
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

Project score

Water	✓ 40	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 63	Target 63
Materials	✓ -100	Target n/a

Certificate Prepared by

Name / Company Name: Efficient Living Pty Ltd

ABN (if applicable): 82116346082

Description of project

Project address	
Project name	1 Crescent Street Holroyd - Phase 1 (T1,T2)_03
Street address	1 CRESCENT STREET HOLROYD 2142
Local Government Area	CUMBERLAND
Plan type and plan number	Deposited Plan 1241836
Lot No.	700
Section no.	-
Project type	
No. of residential flat buildings	2
Residential flat buildings: no. of dwellings	533
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	37904
Roof area (m²)	2440.00
Non-residential floor area (m²)	8273
Residential car spaces	768
Non-residential car spaces	118

Common area landscape		
Common area lawn (m²)	237	
Common area garden (m²)	5800	
Area of indigenous or low water use species (m²)	4060	
Assessor details and thermal loads		
Assessor number	HERA10213	
Certificate number	HR-T6WQKU-02	
Climate zone	56	
Project score		
Water	✔ 40	Target 40
Thermal Performance	✔ Pass	Target Pass
Energy	✔ 63	Target 63
Materials	✔ -100	Target n/a

Description of project

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

Residential flat buildings - Building1, 281 dwellings, 36 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)
11001	2	79.1	0	0	0
11005	2	88.1	0	0	0
11009	2	87.5	0	0	0
11103	2	86	0	0	0
11107	3	104.3	0	0	0
11201	2	79.1	0	0	0
11205	2	88.1	0	0	0
11209	2	87.5	0	0	0
11303	2	86	0	0	0
11307	3	104.3	0	0	0
11401	2	79.1	0	0	0
11405	2	88.1	0	0	0
11409	2	87.5	0	0	0
11503	2	86	0	0	0
11507	3	104.3	0	0	0
11601	2	79.1	0	0	0
11605	2	88.1	0	0	0
11609	2	87.5	0	0	0
11703	2	86	0	0	0
11707	3	104.3	0	0	0
11801	2	79.1	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)
11002	2	89	0	0	0
11006	2	83.4	0	0	0
11010	1	59.9	0	0	0
11104	2	75.2	0	0	0
11108	3	106.7	0	0	0
11202	2	89	0	0	0
11206	2	83.4	0	0	0
11210	1	59.9	0	0	0
11304	2	75.2	0	0	0
11308	3	106.7	0	0	0
11402	2	89	0	0	0
11406	2	83.4	0	0	0
11410	1	59.9	0	0	0
11504	2	75.2	0	0	0
11508	3	106.7	0	0	0
11602	2	89	0	0	0
11606	2	83.4	0	0	0
11610	1	59.9	0	0	0
11704	2	75.2	0	0	0
11708	3	106.7	0	0	0
11802	2	89	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)
11003	2	86	0	0	0
11007	3	104.3	0	0	0
11101	2	79.1	0	0	0
11105	2	88.1	0	0	0
11109	2	87.5	0	0	0
11203	2	86	0	0	0
11207	3	104.3	0	0	0
11301	2	79.1	0	0	0
11305	2	88.1	0	0	0
11309	2	87.5	0	0	0
11403	2	86	0	0	0
11407	3	104.3	0	0	0
11501	2	79.1	0	0	0
11505	2	88.1	0	0	0
11509	2	87.5	0	0	0
11603	2	86	0	0	0
11607	3	104.3	0	0	0
11701	2	79.1	0	0	0
11705	2	88.1	0	0	0
11709	2	87.5	0	0	0
11803	2	86	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)
11004	2	75.2	0	0	0
11008	3	106.7	0	0	0
11102	2	89	0	0	0
11106	2	83.4	0	0	0
11110	1	59.9	0	0	0
11204	2	75.2	0	0	0
11208	3	106.7	0	0	0
11302	2	89	0	0	0
11306	2	83.4	0	0	0
11310	1	59.9	0	0	0
11404	2	75.2	0	0	0
11408	3	106.7	0	0	0
11502	2	89	0	0	0
11506	2	83.4	0	0	0
11510	1	59.9	0	0	0
11604	2	75.2	0	0	0
11608	3	106.7	0	0	0
11702	2	89	0	0	0
11706	2	83.4	0	0	0
11710	1	59.9	0	0	0
11804	2	75.2	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)
11805	2	88.1	0	0	0
11809	2	87.5	0	0	0
11903	2	86	0	0	0
11907	3	104.3	0	0	0
12001	2	79.1	0	0	0
12005	2	88.1	0	0	0
12009	2	87.5	0	0	0
12103	2	86	0	0	0
12107	3	104.3	0	0	0
12201	2	79.1	0	0	0
12205	2	88.1	0	0	0
12209	2	87.5	0	0	0
12303	2	86	0	0	0
12307	3	104.3	0	0	0
12401	2	79.1	0	0	0
12405	2	88.1	0	0	0
12409	2	87.5	0	0	0
12503	2	86	0	0	0
12507	3	104.3	0	0	0
12601	2	79.1	0	0	0
12605	2	88.1	0	0	0
12609	2	87.5	0	0	0
12703	2	86	0	0	0
12707	3	104.3	0	0	0
12801	2	79.1	0	0	0
12805	2	88.1	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)
11806	2	83.4	0	0	0
11810	1	59.9	0	0	0
11904	2	75.2	0	0	0
11908	3	106.7	0	0	0
12002	2	89	0	0	0
12006	2	83.4	0	0	0
12010	1	59.9	0	0	0
12104	2	75.2	0	0	0
12108	3	106.7	0	0	0
12202	2	89	0	0	0
12206	2	83.4	0	0	0
12210	1	59.9	0	0	0
12304	2	75.2	0	0	0
12308	3	106.7	0	0	0
12402	2	89	0	0	0
12406	2	83.4	0	0	0
12410	1	59.9	0	0	0
12504	2	75.2	0	0	0
12508	3	106.7	0	0	0
12602	2	89	0	0	0
12606	2	83.4	0	0	0
12610	1	59.9	0	0	0
12704	2	75.2	0	0	0
12708	3	106.7	0	0	0
12802	2	89	0	0	0
12806	2	83.4	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)
11807	3	104.3	0	0	0
11901	2	79.1	0	0	0
11905	2	88.1	0	0	0
11909	2	87.5	0	0	0
12003	2	86	0	0	0
12007	3	104.3	0	0	0
12101	2	79.1	0	0	0
12105	2	88.1	0	0	0
12109	2	87.5	0	0	0
12203	2	86	0	0	0
12207	3	104.3	0	0	0
12301	2	79.1	0	0	0
12305	2	88.1	0	0	0
12309	2	87.5	0	0	0
12403	2	86	0	0	0
12407	3	104.3	0	0	0
12501	2	79.1	0	0	0
12505	2	88.1	0	0	0
12509	2	87.5	0	0	0
12603	2	86	0	0	0
12607	3	104.3	0	0	0
12701	2	79.1	0	0	0
12705	2	88.1	0	0	0
12709	2	87.5	0	0	0
12803	2	86	0	0	0
12807	3	104.3	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)
11808	3	106.7	0	0	0
11902	2	89	0	0	0
11906	2	83.4	0	0	0
11910	1	59.9	0	0	0
12004	2	75.2	0	0	0
12008	3	106.7	0	0	0
12102	2	89	0	0	0
12106	2	83.4	0	0	0
12110	1	59.9	0	0	0
12204	2	75.2	0	0	0
12208	3	106.7	0	0	0
12302	2	89	0	0	0
12306	2	83.4	0	0	0
12310	1	59.9	0	0	0
12404	2	75.2	0	0	0
12408	3	106.7	0	0	0
12502	2	89	0	0	0
12506	2	83.4	0	0	0
12510	1	59.9	0	0	0
12604	2	75.2	0	0	0
12608	3	106.7	0	0	0
12702	2	89	0	0	0
12706	2	83.4	0	0	0
12710	1	59.9	0	0	0
12804	2	75.2	0	0	0
12808	3	106.7	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)
12809	2	87.5	0	0	0
12903	2	86	0	0	0
12907	3	104.3	0	0	0
13001	2	79.1	0	0	0
13005	2	88.1	0	0	0
13009	2	87.5	0	0	0
13103	2	86	0	0	0
13107	3	104.3	0	0	0
13201	2	79.1	0	0	0
13205	2	88.1	0	0	0
13209	2	87.5	0	0	0
13303	2	86	0	0	0
13307	3	104.3	0	0	0
13401	2	88.1	0	0	0
13405	2	87.5	0	0	0
13503	3	104.3	0	0	0
1701	2	79.1	0	0	0
1705	2	83.4	0	0	0
1709	1	59.9	0	0	0
1804	1	75.2	0	0	0
1808	2	106.7	0	0	0
1902	2	89	0	0	0
1906	3	83.4	0	0	0
1910	1	59.9	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)
12810	1	59.9	0	0	0
12904	2	75.2	0	0	0
12908	3	106.7	0	0	0
13002	2	89	0	0	0
13006	2	83.4	0	0	0
13010	1	59.9	0	0	0
13104	2	75.2	0	0	0
13108	3	106.7	0	0	0
13202	2	89	0	0	0
13206	2	83.4	0	0	0
13210	1	59.9	0	0	0
13304	2	75.2	0	0	0
13308	3	106.7	0	0	0
13402	2	83.4	0	0	0
13406	1	59.9	0	0	0
13504	3	106.7	0	0	0
1702	2	89	0	0	0
1706	3	104.3	0	0	0
1801	2	79.1	0	0	0
1805	2	88.1	0	0	0
1809	1	87.5	0	0	0
1903	2	86	0	0	0
1907	3	104.3	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)
12901	2	79.1	0	0	0
12905	2	88.1	0	0	0
12909	2	87.5	0	0	0
13003	2	86	0	0	0
13007	3	104.3	0	0	0
13101	2	79.1	0	0	0
13105	2	88.1	0	0	0
13109	2	87.5	0	0	0
13203	2	86	0	0	0
13207	3	104.3	0	0	0
13301	2	79.1	0	0	0
13305	2	88.1	0	0	0
13309	2	87.5	0	0	0
13403	3	104.3	0	0	0
13501	2	88.1	0	0	0
13505	2	87.5	0	0	0
1703	2	75.2	0	0	0
1707	3	106.7	0	0	0
1802	2	89	0	0	0
1806	3	83.4	0	0	0
1810	1	59.9	0	0	0
1904	1	75.2	0	0	0
1908	2	106.7	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)
12902	2	89	0	0	0
12906	2	83.4	0	0	0
12910	1	59.9	0	0	0
13004	2	75.2	0	0	0
13008	3	106.7	0	0	0
13102	2	89	0	0	0
13106	2	83.4	0	0	0
13110	1	59.9	0	0	0
13204	2	75.2	0	0	0
13208	3	106.7	0	0	0
13302	2	89	0	0	0
13306	2	83.4	0	0	0
13310	1	59.9	0	0	0
13404	3	106.7	0	0	0
13502	2	83.4	0	0	0
13506	1	59.9	0	0	0
1704	1	57.5	0	0	0
1708	2	87.4	0	0	0
1803	2	86	0	0	0
1807	3	104.3	0	0	0
1901	2	79.1	0	0	0
1905	2	88.1	0	0	0
1909	1	87.5	0	0	0

Residential flat buildings - Building2, 252 dwellings, 33 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)	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)	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)
21001	2	74	0	0	0	21002	3	99.1	0	0	0	21003	2	85.1	0	0	0
21005	2	79.7	0	0	0	21006	3	109.1	0	0	0	21007	1	59.7	0	0	0
21101	2	74	0	0	0	21102	3	99.1	0	0	0	21103	2	85.1	0	0	0
21105	2	79.7	0	0	0	21106	3	109.1	0	0	0	21107	1	59.7	0	0	0
21201	2	74	0	0	0	21202	3	99.1	0	0	0	21203	2	85.1	0	0	0
21205	2	79.7	0	0	0	21206	3	109.1	0	0	0	21207	1	59.7	0	0	0
21301	2	74	0	0	0	21302	3	99.1	0	0	0	21303	2	85.1	0	0	0
21305	2	79.7	0	0	0	21306	3	109.1	0	0	0	21307	1	59.7	0	0	0
21401	2	74	0	0	0	21402	3	99.1	0	0	0	21403	2	85.1	0	0	0
21405	2	79.7	0	0	0	21406	3	109.1	0	0	0	21407	1	59.7	0	0	0
21501	2	74	0	0	0	21502	3	99.1	0	0	0	21503	2	85.1	0	0	0
21505	2	79.7	0	0	0	21506	3	109.1	0	0	0	21507	1	59.7	0	0	0
21601	2	74	0	0	0	21602	3	99.1	0	0	0	21603	2	85.1	0	0	0
21605	2	79.7	0	0	0	21606	3	109.1	0	0	0	21607	1	59.7	0	0	0
21701	2	74	0	0	0	21702	3	99.1	0	0	0	21703	2	85.1	0	0	0
21705	2	79.7	0	0	0	21706	3	109.1	0	0	0	21707	1	59.7	0	0	0
21801	2	74	0	0	0	21802	3	99.1	0	0	0	21803	2	85.1	0	0	0
21805	2	79.7	0	0	0	21806	3	109.1	0	0	0	21807	1	59.7	0	0	0
21901	2	74	0	0	0	21902	3	99.1	0	0	0	21903	2	85.1	0	0	0
21905	2	79.7	0	0	0	21906	3	109.1	0	0	0	21907	1	59.7	0	0	0
22001	2	74	0	0	0	22002	3	99.1	0	0	0	22003	2	85.1	0	0	0
22005	2	79.7	0	0	0	22006	3	109.1	0	0	0	22007	1	59.7	0	0	0
22101	2	74	0	0	0	22102	3	99.1	0	0	0	22103	2	85.1	0	0	0
22105	2	79.7	0	0	0	22106	3	109.1	0	0	0	22107	1	59.7	0	0	0
22201	2	74	0	0	0	22202	3	99.1	0	0	0	22203	2	85.1	0	0	0
												21004	2	80.4	0	0	0
												21008	2	85.8	0	0	0
												21104	2	80.4	0	0	0
												21108	2	85.8	0	0	0
												21204	2	80.4	0	0	0
												21208	2	85.8	0	0	0
												21304	2	80.4	0	0	0
												21308	2	85.8	0	0	0
												21404	2	80.4	0	0	0
												21408	2	85.8	0	0	0
												21504	2	80.4	0	0	0
												21508	2	85.8	0	0	0
												21604	2	80.4	0	0	0
												21608	2	85.8	0	0	0
												21704	2	80.4	0	0	0
												21708	2	85.8	0	0	0
												21804	2	80.4	0	0	0
												21808	2	85.8	0	0	0
												21904	2	80.4	0	0	0
												21908	2	85.8	0	0	0
												22004	2	80.4	0	0	0
												22008	2	85.8	0	0	0
												22104	2	80.4	0	0	0
												22108	2	85.8	0	0	0
												22204	2	80.4	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)
22205	2	79.7	0	0	0
22301	2	74	0	0	0
22305	2	79.7	0	0	0
22401	2	74	0	0	0
22405	2	79.7	0	0	0
22501	2	74	0	0	0
22505	2	79.7	0	0	0
22601	2	74	0	0	0
22605	2	79.7	0	0	0
22701	2	74	0	0	0
22705	2	79.7	0	0	0
22801	2	74	0	0	0
22805	2	79.7	0	0	0
22901	2	74	0	0	0
22905	2	79.7	0	0	0
23001	2	74	0	0	0
23005	2	79.7	0	0	0
23101	2	74	0	0	0
23105	2	79.7	0	0	0
23201	2	74	0	0	0
23205	2	79.7	0	0	0
23301	2	74	0	0	0
2701	2	74	0	0	0
2705	2	79.7	0	0	0
2801	2	74	0	0	0
2805	2	79.7	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)
22206	3	109.1	0	0	0
22302	3	99.1	0	0	0
22306	3	109.1	0	0	0
22402	3	99.1	0	0	0
22406	3	109.1	0	0	0
22502	3	99.1	0	0	0
22506	3	109.1	0	0	0
22602	3	99.1	0	0	0
22606	3	109.1	0	0	0
22702	3	99.1	0	0	0
22706	3	109.1	0	0	0
22802	3	99.1	0	0	0
22806	3	109.1	0	0	0
22902	3	99.1	0	0	0
22906	3	109.1	0	0	0
23002	3	99.1	0	0	0
23006	3	109.1	0	0	0
23102	3	99.1	0	0	0
23106	3	109.1	0	0	0
23202	3	99.1	0	0	0
23206	3	109.1	0	0	0
23302	3	109.1	0	0	0
2702	3	99.1	0	0	0
2706	3	109.1	0	0	0
2802	3	99.1	0	0	0
2806	3	109.1	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)
22207	1	59.7	0	0	0
22303	2	85.1	0	0	0
22307	1	59.7	0	0	0
22403	2	85.1	0	0	0
22407	1	59.7	0	0	0
22503	2	85.1	0	0	0
22507	1	59.7	0	0	0
22603	2	85.1	0	0	0
22607	1	59.7	0	0	0
22703	2	85.1	0	0	0
22707	1	59.7	0	0	0
22803	2	85.1	0	0	0
22807	1	59.7	0	0	0
22903	2	85.1	0	0	0
22907	1	59.7	0	0	0
23003	2	85.1	0	0	0
23007	1	59.7	0	0	0
23103	2	85.1	0	0	0
23107	1	59.7	0	0	0
23203	2	85.1	0	0	0
23207	1	59.7	0	0	0
23303	1	59.7	0	0	0
2703	2	85.1	0	0	0
2707	1	59.7	0	0	0
2803	2	85.1	0	0	0
2807	1	59.7	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)
22208	2	85.8	0	0	0
22304	2	80.4	0	0	0
22308	2	85.8	0	0	0
22404	2	80.4	0	0	0
22408	2	85.8	0	0	0
22504	2	80.4	0	0	0
22508	2	85.8	0	0	0
22604	2	80.4	0	0	0
22608	2	85.8	0	0	0
22704	2	80.4	0	0	0
22708	2	85.8	0	0	0
22804	2	80.4	0	0	0
22808	2	85.8	0	0	0
22904	2	80.4	0	0	0
22908	2	85.8	0	0	0
23004	2	80.4	0	0	0
23008	2	85.8	0	0	0
23104	2	80.4	0	0	0
23108	2	85.8	0	0	0
23204	2	80.4	0	0	0
23208	2	85.8	0	0	0
23304	2	85.8	0	0	0
2704	2	80.4	0	0	0
2708	2	85.8	0	0	0
2804	2	80.4	0	0	0
2808	2	85.8	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
2901	2	74	0	0	0
2905	2	79.7	0	0	0
P201	3	109.5	0	0	0
P205	2	83.4	0	0	0
P301	3	109.5	0	0	0
P305	2	83.4	0	0	0
P401	3	109.5	0	0	0
P405	2	83.4	0	0	0
P501	3	109.5	0	0	0
P505	2	83.4	0	0	0
P601	3	109.5	0	0	0
P605	2	83.4	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
2902	3	99.1	0	0	0
2906	3	109.1	0	0	0
P202	3	107.2	0	0	0
P206	2	81	0	0	0
P302	3	107.2	0	0	0
P306	2	81	0	0	0
P402	3	107.2	0	0	0
P406	2	81	0	0	0
P502	3	107.2	0	0	0
P506	2	81	0	0	0
P602	3	107.2	0	0	0
P606	2	81	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
2903	2	85.1	0	0	0
2907	1	59.7	0	0	0
P203	3	107.2	0	0	0
P207	2	77.9	0	0	0
P303	3	107.2	0	0	0
P307	2	77.9	0	0	0
P403	3	107.2	0	0	0
P407	2	77.9	0	0	0
P503	3	107.2	0	0	0
P507	2	77.9	0	0	0
P603	3	107.2	0	0	0
P607	2	77.9	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
2904	2	80.4	0	0	0
2908	2	85.8	0	0	0
P204	2	87.6	0	0	0
P208	2	94.3	0	0	0
P304	2	87.6	0	0	0
P308	2	94.3	0	0	0
P404	2	87.6	0	0	0
P408	2	94.3	0	0	0
P504	2	87.6	0	0	0
P508	2	94.3	0	0	0
P604	2	87.6	0	0	0
P608	2	94.3	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 (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Undercover car park area	33690	Garbage rooms	630	Mec vent plant or service rooms	1829
Shared Bathrooms	97	Post room/storage/FCR	171	Bike Sapce	274
Outdoor communal area	990	Ground floor lobby	180	Hallway/lobby type	5597

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building1

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for Residential flat buildings - Building2

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

3. Commitments for multi-dwelling housing

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

4. Commitments for single dwelling houses

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

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

(a) Buildings 'Other'

(i) Materials

(b) 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 - Building1

(a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	621	-	-
suspended floor above open subfloor, frame: suspended concrete slab	1405	-	-
floors above habitable rooms, frame: suspended concrete slab	23520	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (metal clad), frame: light steel frame	11100	-	-
External wall type 2	off form concrete, frame: no frame	1419	none	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	19887	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	11375	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	373	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1340	-	-

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	7177	-	7177	-	-	-	-

(b) 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.	✓	✓	✓

	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
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	5 star	5 star	-	not specified	4 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	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.	✓	✓	✓
(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;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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 with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	4 star	8.0 star	no	no

(iii) Thermal Performance	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)	Area adjusted total load (in MJ/m ² /yr)
11001	12.6	12.3	24.900
11002	17.2	8.1	25.300
11003	27.2	5.8	33.000
11005	17.9	5.7	23.600

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
11006	16.5	7.2	23.700
11007	9.4	11.3	20.700
11008	7.2	9.9	17.100
11009	12.1	5.3	17.400
11010	10.3	8.1	18.400
11101	12.9	12.2	25.100
11102	17.5	8.1	25.600
11103	27.6	5.8	33.400
11105	18.2	5.7	23.900
11106	16.8	7	23.800
11107	9.6	11.5	21.100
11108	7.4	9.8	17.200
11109	12.3	5.3	17.600
11110	10.6	8.1	18.700
11201	13	12.2	25.200
11202	17.7	8.1	25.800
11203	27.8	5.8	33.600
11204	15.2	4.4	19.600
11205	18.1	5.7	23.800
11206	17	7.3	24.300
11207	9.5	11.5	21.000
11208	7.5	9.9	17.400
11209	12.5	5.3	17.800
11210	10.7	8.1	18.800
11301	13.2	12.7	25.900
11302	17.8	8.1	25.900
11303	27.9	5.7	33.600
11304	15.3	4.3	19.600
11305	18.3	5.7	24.000
11306	17.1	7.3	24.400
11307	9.6	11.4	21.000

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
11308	7.6	9.8	17.400
11309	12.6	5.3	17.900
11310	10.8	8.3	19.100
11401	13.3	12.3	25.600
11402	18	8.1	26.100
11403	28.1	5.7	33.800
11404	15.4	4.2	19.600
11405	18.4	5.7	24.100
11406	17.2	6.8	24.000
11407	9.6	11.3	20.900
11408	7.7	9.8	17.500
11409	12.7	5.2	17.900
11410	11	8.2	19.200
11501	13.8	12	25.800
11502	18.5	8.4	26.900
11503	28.6	5.9	34.500
11504	15.9	4.3	20.200
11505	18.9	5.8	24.700
11506	17.8	7	24.800
11507	9.9	11.6	21.500
11508	7.9	9.9	17.800
11509	13.2	5.2	18.400
11510	11.4	8.4	19.800
11601	13.7	11.8	25.500
11602	18.4	7.8	26.200
11603	28.6	5.7	34.300
11604	15.8	4.7	20.500
11605	18.8	5.7	24.500
11606	17.6	6.6	24.200
11608	7.8	9.8	17.600
11609	13.1	4.9	18.000

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
11610	11.3	8.4	19.700
11701	13.8	11.7	25.500
11702	18.6	7.8	26.400
11703	28.7	5.6	34.300
11704	15.8	4.6	20.400
11705	18.9	5.9	24.800
11706	17.8	6.6	24.400
11708	7.9	9.8	17.700
11709	13.3	4.8	18.100
11710	11.5	8.1	19.600
11801	14	11.7	25.700
11802	18.7	7.9	26.600
11803	28.9	5.7	34.600
11804	15.9	4.7	20.600
11805	19.3	5.9	25.200
11806	17.9	6.5	24.400
11807	10	11.3	21.300
11808	8	9.7	17.700
11809	13.4	4.8	18.200
11810	11.6	8.1	19.700
11901	14.1	11.5	25.600
11902	18.9	7.9	26.800
11903	29	5.8	34.800
11904	16	4.6	20.600
11905	19.2	6	25.200
11906	18	6.5	24.500
11907	10.1	11.2	21.300
11908	8.1	9.6	17.700
11909	13.5	4.8	18.300
11910	11.8	8.2	20.000
12002	19	7.8	26.800

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
12004	16.1	4.6	20.700
12005	19.5	5.4	24.900
12009	13.7	5	18.700
12102	19	7.9	26.900
12104	16.2	4.6	20.800
12105	19.2	5.9	25.100
12106	18.1	6.5	24.600
12109	13.7	4.8	18.500
12201	14.4	11.6	26.000
12202	19.2	7.9	27.100
12204	16.3	4.6	20.900
12207	10.3	11.3	21.600
12208	8.2	9.4	17.600
12209	13.8	4.9	18.700
12210	12.1	7.7	19.800
12301	14.5	11.6	26.100
12302	19.3	7.8	27.100
12304	16.4	4.7	21.100
12306	18.3	6.5	24.800
12307	10.4	11.2	21.600
12308	8.3	9.3	17.600
12309	13.9	4.8	18.700
12310	12.2	7.7	19.900
12401	14.7	11.5	26.200
12402	19.4	7.9	27.300
12403	29.3	5.9	35.200
12404	16.4	4.9	21.300
12405	19.8	5.4	25.200
12407	10.5	11.2	21.700
12408	8.4	9.4	17.800
12409	14	4.9	18.900

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
12410	12.3	7.5	19.800
12503	29.3	6.4	35.700
12504	16.5	5.2	21.700
12505	19.7	6	25.700
12506	18.6	6.8	25.400
12508	8.5	9.4	17.900
12509	14.3	4.8	19.100
12510	12.6	7.5	20.100
12601	14.8	11.4	26.200
12603	29.1	6.6	35.700
12605	19.8	5.8	25.600
12607	10.5	11	21.500
12608	8.5	9.3	17.800
12609	14.2	5	19.200
12610	12.5	7.4	19.900
12702	19.7	7.8	27.500
12703	29.1	6.7	35.800
12705	19.8	5.9	25.700
12706	18.5	6.6	25.100
12707	10.6	10.9	21.500
12708	8.6	9.2	17.800
12709	14.3	5	19.300
12710	12.6	7.3	19.900
12801	15.1	11.2	26.300
12802	19.9	7.8	27.700
12803	29	7.1	36.100
12804	16.3	6.2	22.500
12805	19.8	6.3	26.100
12806	18.5	6.7	25.200
12808	8.6	9.4	18.000
12809	14.4	4.9	19.300

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
12810	12.8	7.7	20.500
12901	15.2	11.1	26.300
12902	20	7.8	27.800
12903	28.3	7.5	35.800
12904	16.1	6.5	22.600
12905	19.8	6.5	26.300
12906	18.6	6.7	25.300
12907	10.7	11	21.700
12909	14.6	4.8	19.400
12910	12.9	7.5	20.400
13001	15.2	11.3	26.500
13002	20	7.7	27.700
13003	27.1	7.8	34.900
13004	15.8	7.4	23.200
13005	19.6	6.3	25.900
13006	18.4	6.8	25.200
13007	10.6	11	21.600
13009	14.6	4.7	19.300
13010	12.9	7.4	20.300
13102	20.1	7.7	27.800
13103	25.7	9.6	35.300
13104	15.5	8.8	24.300
13105	19.5	6.6	26.100
13106	18.3	6.6	24.900
13107	10.6	11.2	21.800
13202	20.2	7.6	27.800
13203	24.2	10.2	34.400
13204	14.7	9.8	24.500
13205	19.3	6.7	26.000
13206	18.1	7.1	25.200
13207	10.6	11.7	22.300

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
13301	22.3	11.3	33.600
13302	25.3	8.4	33.700
13303	25	11.6	36.600
13304	22	13.1	35.100
13305	19.2	6.8	26.000
13306	17.9	7.5	25.400
13307	10.6	11.9	22.500
13308	8.9	9.3	18.200
13309	14.8	4.7	19.500
13310	13.2	7.4	20.600
13401	19.9	7	26.900
13402	17.6	8	25.600
13403	10.6	12	22.600
13404	9	9.3	18.300
13405	14.9	4.9	19.800
13406	13.3	7.4	20.700
13501	25.6	8.7	34.300
13502	24.7	9.5	34.200
13503	20.5	15.9	36.400
13504	18.8	12.4	31.200
13505	25.3	6.6	31.900
13506	23.3	9.5	32.800
1701	18	13.4	31.400
1702	26.6	7.1	33.700
1703	27.3	3.4	30.700
1704	22.2	5.6	27.800
1705	24.9	6.1	31.000
1706	13.2	11.7	24.900
1707	9.5	9.7	19.200
1708	22.4	4	26.400
1709	8	8.6	16.600

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
1801	12.2	12.5	24.700
1802	16.8	8.5	25.300
1803	27	5.9	32.900
1804	14.4	4.4	18.800
1805	18.5	5.9	24.400
1806	16.1	7.4	23.500
1807	9.1	11.3	20.400
1808	7	10	17.000
1809	11.7	5.4	17.100
1810	9.9	8.5	18.400
1901	12.5	12.3	24.800
1902	17.1	8.1	25.200
1903	27.1	5.9	33.000
1904	14.6	4.4	19.000
1905	17.6	5.8	23.400
1906	16.4	7.3	23.700
1907	9.3	11.3	20.600
1908	7.1	10.1	17.200
1909	12	5.4	17.400
1910	10.1	8.2	18.300
11004, 11104	14.9	4.4	19.300
11607, 11707	9.9	11.2	21.100
12001, 12101	14.3	11.7	26.000
12003, 12103	29.1	5.8	34.900
12006, 12206	18.2	6.5	24.700
12007, 12107	10.2	11.3	21.500
12008, 12108	8.1	9.5	17.600
12010, 12110	11.9	8.1	20.000
12203, 12303	29.2	6	35.200
12205, 12305	19.4	5.9	25.300
12406, 12606	18.4	6.7	25.100

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
12501, 12701	14.9	11.3	26.200
12502, 12602	19.6	7.9	27.500
12507, 12807	10.6	11.1	21.700
12604, 12704	16.3	5.3	21.600
12908, 13008	8.7	9.3	18.000
13101, 13201	15.4	11.2	26.600
13108, 13208	8.8	9.3	18.100
13109, 13209	14.7	4.8	19.500
All other dwellings	13.1	7.4	20.500

(c) 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	4 star	5 star	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.	✓	✓	✓

Central energy systems	Type	Specification
Lift bank (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 29 number of levels from the bottom of the lift shaft to the top of the lift shaft: 37 number of lifts: 4 lift load capacity: >= 1001 kg but <= 1500kg
Central hot water system (No. 1)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

2. Commitments for Residential flat buildings - Building2

(a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	465	-	-
suspended floor above open subfloor, frame: suspended concrete slab	1260	-	-
suspended floor above open subfloor, frame: suspended concrete slab	21101	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards),frame:light steel frame	11037	-	-
External wall type 2	off form concrete,frame:light steel frame	478	none	-

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	19649	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 2	75 mm AAC panel, frame:light steel frame	9431	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	305	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1100	-	-

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	6851	-	6851	-	-	-	-

(b) 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.	✓	✓	✓

	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
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	5 star	5 star	-	not specified	4 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	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.	✓	✓	✓
(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;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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 with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	4 star	8.0 star	no	no

(iii) Thermal Performance	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)	Area adjusted total load (in MJ/m ² /yr)
21001	29.8	7	36.800
21002	23.9	8.3	32.200
21003	12.6	8.2	20.800
21004	17.3	9.4	26.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
21005	10.1	15.3	25.400
21006	16.5	4.9	21.400
21007	26	4.2	30.200
21008	21.9	3.5	25.400
21101	30.1	7	37.100
21102	23.3	8.6	31.900
21103	12.7	8	20.700
21104	17.6	9.3	26.900
21105	10.4	15.3	25.700
21106	16.8	4.9	21.700
21107	26.4	4.2	30.600
21108	22	3.5	25.500
21201	30.2	6.9	37.100
21202	23.5	8.6	32.100
21203	13	8.5	21.500
21204	17.8	9.2	27.000
21205	10.5	15.2	25.700
21206	16.9	4.9	21.800
21207	26.6	4.2	30.800
21208	22.2	3.5	25.700
21301	29.4	7.2	36.600
21302	23.7	8.2	31.900
21303	13.2	8.5	21.700
21304	17.9	9.3	27.200
21305	10.5	15	25.500
21306	17	4.9	21.900
21307	26.7	4.1	30.800
21308	22.3	3.4	25.700
21401	29.5	7.1	36.600
21402	23.8	8.1	31.900
21403	13.1	8.3	21.400

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
21404	18	9.2	27.200
21405	10.7	14.8	25.500
21406	17.1	4.9	22.000
21407	26.9	4.1	31.000
21408	22.5	3.5	26.000
21501	29.7	7.5	37.200
21503	13.6	8.5	22.100
21504	18.6	9.4	28.000
21506	17.7	5.1	22.800
21507	27.4	4.4	31.800
21508	23	3.4	26.400
21601	30.4	7.5	37.900
21602	21.7	8	29.700
21603	14	8.7	22.700
21607	24.6	3.9	28.500
21701	30.3	7.5	37.800
21702	24.3	8.8	33.100
21703	14.3	8.7	23.000
21705	10.8	15.2	26.000
21707	24.6	4.1	28.700
21708	22.7	3.1	25.800
21803	14.2	8.4	22.600
21804	18.7	8.9	27.600
21805	10.9	15.1	26.000
21807	24.7	4.1	28.800
21902	24.5	8.9	33.400
21903	14	8	22.000
21904	18.9	9	27.900
21905	11	15.1	26.100
21907	24.8	4	28.800
21908	23	3.1	26.100

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
22002	24.7	8.4	33.100
22003	13.9	8.5	22.400
22006	17.6	5.1	22.700
22007	24.9	4	28.900
22008	23.2	3.2	26.400
22102	24.7	8.3	33.000
22103	14.3	8.3	22.600
22106	17.5	5.2	22.700
22108	23	3.2	26.200
22201	30	6.9	36.900
22202	24.9	8.5	33.400
22203	14.4	8.5	22.900
22204	19.2	9	28.200
22205	11.2	14.6	25.800
22206	17.7	5.3	23.000
22208	23.2	3.3	26.500
22301	29.9	7.6	37.500
22302	24.9	8.4	33.300
22303	14.7	8.2	22.900
22304	19.3	8.7	28.000
22305	11.4	14.7	26.100
22306	17.9	5.3	23.200
22307	25	4.1	29.100
22401	30	7.7	37.700
22402	25.1	8.9	34.000
22403	14.8	8.3	23.100
22404	19.5	8.8	28.300
22405	11.6	14.7	26.300
22406	18.1	5.6	23.700
22407	25.1	4.1	29.200
22501	29.9	6.8	36.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
22503	15.1	8.5	23.600
22504	19.8	8.8	28.600
22505	12.2	14.4	26.600
22506	18.4	5.5	23.900
22507	25.2	4.2	29.400
22508	23	3.3	26.300
22601	29.4	7	36.400
22602	25.1	8.6	33.700
22603	14.8	8.2	23.000
22604	19.6	8.7	28.300
22605	11.9	14.3	26.200
22606	17.9	5.5	23.400
22607	24.8	4.5	29.300
22608	22.9	3.2	26.100
22701	29.6	7.4	37.000
22702	25.5	8.3	33.800
22703	14.9	8.2	23.100
22704	19.8	8.6	28.400
22705	12	14.3	26.300
22706	18.2	5.8	24.000
22707	28.1	4.6	32.700
22708	19.2	4	23.200
22801	29.4	7.5	36.900
22803	15.1	8.6	23.700
22804	19.9	8.7	28.600
22805	12.1	14.4	26.500
22806	17.9	5.9	23.800
22807	24.8	4.8	29.600
22808	21.3	3.9	25.200
22901	29.5	7.5	37.000
22902	25.7	8.8	34.500

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
22903	15.4	8.7	24.100
22904	20.1	8.5	28.600
22905	12.2	14.3	26.500
22906	17.6	6	23.600
22907	24.6	4.8	29.400
22908	20.6	3.9	24.500
23001	29.1	7	36.100
23002	25.7	9.1	34.800
23003	15.3	8.2	23.500
23004	20.1	8.4	28.500
23005	12.3	14.3	26.600
23006	16.9	6.1	23.000
23007	23.4	5.3	28.700
23008	19.8	4.2	24.000
23101	28.8	7.2	36.000
23102	25.7	8.6	34.300
23103	15.5	8.9	24.400
23104	20.2	8.4	28.600
23105	12.4	14	26.400
23106	16	6.4	22.400
23107	21.1	5.8	26.900
23108	18	4.5	22.500
23201	27.8	7	34.800
23202	27.8	9.1	36.900
23203	25.4	10.5	35.900
23204	26.3	8.1	34.400
23205	19.8	15.5	35.300
23206	14.4	6.6	21.000
23207	16.8	6	22.800
23208	13.8	4.6	18.400
23301	27.6	8.1	35.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
23302	29.2	8.1	37.300
23303	27.2	8.5	35.700
23304	22.5	6.7	29.200
2701	31.4	6.3	37.700
2702	21	9	30.000
2703	12.4	8.9	21.300
2704	14.8	9.8	24.600
2705	8.1	18.3	26.400
2706	15.5	5	20.500
2707	31.5	3.4	34.900
2708	32.3	3	35.300
2801	29.4	6.9	36.300
2802	23.4	8.3	31.700
2803	13.8	8	21.800
2804	16.8	9.9	26.700
2805	9.8	15.8	25.600
2806	16.1	4.9	21.000
2807	25.5	4.3	29.800
2808	21.7	3.5	25.200
2901	29.7	7.1	36.800
2902	23.7	8.3	32.000
2903	12.8	8.2	21.000
2904	17.2	10.1	27.300
2905	10	15.4	25.400
2906	16.4	4.9	21.300
2907	25.8	4.3	30.100
2908	21.8	3.5	25.300
P201	28	5.9	33.900
P202	11.6	8.9	20.500
P203	18	8.9	26.900
P204	18.2	8.8	27.000

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
P205	11.2	7.9	19.100
P206	12.1	7.7	19.800
P207	7.2	11.7	18.900
P208	17.2	4.2	21.400
P301	29.7	5.2	34.900
P302	12.7	7	19.700
P303	19.8	6.8	26.600
P304	16.9	8.1	25.000
P305	12.7	6.5	19.200
P306	10.7	7.2	17.900
P307	3.1	11.4	14.500
P308	13.2	4.4	17.600
P401	30.2	5.4	35.600
P402	13.3	7.8	21.100
P403	20.5	7.5	28.000
P404	20.8	8	28.800
P405	13.3	7.3	20.600
P406	14.2	7.1	21.300
P407	6.6	10.3	16.900
P408	15.9	4.6	20.500
P501	30.6	5.4	36.000
P502	13.7	7.8	21.500
P503	21	7.4	28.400
P504	21.3	8.1	29.400
P505	13.8	7.1	20.900
P506	14.7	7	21.700
P507	7	10	17.000
P508	16	4.5	20.500
P601	29	8.9	37.900
P602	22.5	11.2	33.700
P603	27.8	9.9	37.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
P604	22.5	13.4	35.900
P605	16.6	11.7	28.300
P606	17.1	11.7	28.800
P607	13.1	16	29.100
P608	23.7	7.5	31.200
21502, 21802	24.4	8.6	33.000
21505, 21605	11	15.2	26.200
21604, 21704	18.6	9.1	27.700
21606, 21906	17.4	5	22.400
21608, 21808	22.8	3.2	26.000
21706, 21806	17.3	5	22.300
21801, 21901	30.4	7.4	37.800
22001, 22101	30.2	7.4	37.600
22004, 22104	19	8.8	27.800
22005, 22105	11.1	14.8	25.900
22107, 22207	24.8	4.1	28.900
22308, 22408	23.1	3.2	26.300
All other dwellings	25.5	8.7	34.200

(c) 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	4 star	5 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
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 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 bank (No. 1)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 2)	-	-	light-emitting diode	connected to lift call button	no

Central energy systems	Type	Specification
Lift bank (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 32 number of levels from the bottom of the lift shaft to the top of the lift shaft: 35 number of lifts: 3 lift load capacity: >= 1001 kg but <= 1500kg
Central hot water system (No. 2)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

3. Commitments for multi-dwelling housing

(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.	✓	✓	✓
(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.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✓	✓	✓
(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".		✓	
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		✓	

4. Commitments for single dwelling houses

(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.	✓	✓	✓
(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.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✓	✓	✓
(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".		✓	
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		✓	

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

(a) Buildings 'Other'

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
garage floor, frame: concrete slab on ground	6845	-	none
garage floor, frame: suspended concrete slab	26850	-	none
suspended floor above enclosed subfloor, frame: suspended concrete slab	4950	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	off form concrete,frame:no frame	2000	none	-

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
-	-	-	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
-	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
-	-	-	

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	-	-	-	-	-	-	-

(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	4 star	5 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Swimming pool (No. 1)	Volume: 135 kLs	Location: Other Pool shaded: no	-
Central water tank - rainwater or stormwater (No. 1)	10000	To collect run-off from at least: - 1220 square metres of roof area of buildings in the development - 0 square metres of impervious area in the development - 0 square metres of garden/lawn area in the development - 0 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 6037 square metres of common landscaped area on the site - car washing in 1 car washing bays on the site
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
Undercover car park area	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	zoned switching with motion sensor	no
Garbage rooms	ventilation exhaust only	-	light-emitting diode	motion sensors	no
Mec vent plant or service rooms	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	no
Shared Bathrooms	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	motion sensors	no
Post room/storage/FCR	ventilation supply only	none i.e., continuous	light-emitting diode	manual on / manual off	no
Bike Sapce	ventilation supply only	none i.e., continuous	light-emitting diode	motion sensors	no
Outdoor communal area	no mechanical ventilation	-	light-emitting diode	daylight sensors	no
Ground floor lobby	ventilation supply only	time clock or BMS controlled	light-emitting diode	daylight sensors	no
Hallway/lobby type	ventilation supply only	time clock or BMS controlled	light-emitting diode	zoned switching with motion sensor	no

Central energy systems	Type	Specification
Swimming pool (No. 1)	Heating source: gas	Pump controlled by timer: yes
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 150 peak kW
Other	-	-

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).

BASIX[®]Certificate

Building Sustainability Index www.basix.nsw.gov.au

Multi Dwelling

Certificate number: 1771734M

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.basix.nsw.gov.au

Secretary

Date of issue: Tuesday, 05 November 2024

To be valid, this certificate must be submitted with a development application or lodged with a complying development certificate application within 3 months of the date of issue.



Project summary

Project name	1 Crescent Street Holroyd - Phase 1 (T3)
Street address	1 CRESCENT STREET HOLROYD 2142
Local Government Area	CUMBERLAND
Plan type and plan number	Deposited Plan 1241836
Lot No.	700
Section no.	-
No. of residential flat buildings	1
Residential flat buildings: no. of dwellings	118
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

Project score

Water	✓ 41	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 64	Target 63
Materials	✓ -29	Target n/a

Certificate Prepared by

Name / Company Name: Efficient Living Pty Ltd

ABN (if applicable): 82116346082

Description of project

Project address	
Project name	1 Crescent Street Holroyd - Phase 1 (T3)
Street address	1 CRESCENT STREET HOLROYD 2142
Local Government Area	CUMBERLAND
Plan type and plan number	Deposited Plan 1241836
Lot No.	700
Section no.	-
Project type	
No. of residential flat buildings	1
Residential flat buildings: no. of dwellings	118
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	37904
Roof area (m²)	928
Non-residential floor area (m²)	0
Residential car spaces	0
Non-residential car spaces	0

Common area landscape		
Common area lawn (m²)	0	
Common area garden (m²)	250	
Area of indigenous or low water use species (m²)	0	
Assessor details and thermal loads		
Assessor number	HERA10213	
Certificate number	HR-9AFAZV-01	
Climate zone	56	
Project score		
Water	✓ 41	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 64	Target 63
Materials	✓ -29	Target n/a

Description of project

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

Residential flat buildings - Building3, 118 dwellings, 25 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)
31001	2	81.3	0	0.00	0
31005	2	85.2	0	0	0
31102	3	103.4	0	0	0
31106	2	80.5	0	0	0
31203	1	53.2	0	0	0
31207	2	77	0	0	0
31304	3	104	0	0	0
31401	2	81.3	0	0	0
31405	2	85.2	0	0	0
31502	3	103.4	0	0	0
31506	2	80.5	0	0	0
31603	1	53.2	0	0	0
31607	2	77	0	0	0
31704	3	104	0	0	0
31801	2	81.3	0	0	0
31805	2	85.2	0	0	0
31902	3	103.4	0	0	0
31906	2	80.5	0	0	0
32003	1	53.2	0	0	0
32007	2	77	0	0	0
32104	3	104	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)
31002	3	103.4	0	0	0
31006	2	80.5	0	0	0
31103	1	53.2	0	0	0
31107	2	77	0	0	0
31204	3	104	0	0	0
31301	2	81.3	0	0	0
31305	2	85.2	0	0	0
31402	3	103.4	0	0	0
31406	2	80.5	0	0	0
31503	1	53.2	0	0	0
31507	2	77	0	0	0
31604	3	104	0	0	0
31701	2	81.3	0	0	0
31705	2	85.2	0	0	0
31802	3	103.4	0	0	0
31806	2	80.5	0	0	0
31903	1	53.2	0	0	0
31907	2	77	0	0	0
32004	3	104	0	0	0
32101	2	81.3	0	0	0
32105	2	85.2	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)
31003	1	53.2	0	0	0
31007	2	77	0	0	0
31104	3	104	0	0	0
31201	2	81.3	0	0	0
31205	2	85.2	0	0	0
31302	3	103.4	0	0	0
31306	2	80.5	0	0	0
31403	1	53.2	0	0	0
31407	2	77	0	0	0
31504	3	104	0	0	0
31601	2	81.3	0	0	0
31605	2	85.2	0	0	0
31702	3	103.4	0	0	0
31706	2	80.5	0	0	0
31803	1	53.2	0	0	0
31807	2	77	0	0	0
31904	3	104	0	0	0
32001	2	81.3	0	0	0
32005	2	85.2	0	0	0
32102	3	103.4	0	0	0
32106	2	80.5	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)
31004	3	104	0	0	0
31101	2	81.3	0	0	0
31105	2	85.2	0	0	0
31202	3	103.4	0	0	0
31206	2	80.5	0	0	0
31303	1	53.2	0	0	0
31307	2	77	0	0	0
31404	3	104	0	0	0
31501	2	81.3	0	0	0
31505	2	85.2	0	0	0
31602	3	103.4	0	0	0
31606	2	80.5	0	0	0
31703	1	53.2	0	0	0
31707	2	77	0	0	0
31804	3	104	0	0	0
31901	2	81.3	0	0	0
31905	2	85.2	0	0	0
32002	3	103.4	0	0	0
32006	2	80.5	0	0	0
32103	1	53.2	0	0	0
32107	2	77	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
32201	2	81.3	0	0	0
32205	2	85.2	0	0	0
32302	3	103.4	0	0	0
32306	2	80.5	0	0	0
3703	3	104	0	0	0
3801	2	81.3	0	0	0
3805	2	85.2	0	0	0
3902	3	103.4	0	0	0
3906	2	80.5	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
32202	3	103.4	0	0	0
32206	2	80.5	0	0	0
32303	1	53.2	0	0	0
32307	2	77	0	0	0
3704	2	85.2	0	0	0
3802	3	103.4	0	0	0
3806	2	80.5	0	0	0
3903	1	53.2	0	0	0
3907	2	77	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
32203	1	53.2	0	0	0
32207	2	77	0	0	0
32304	3	104	0	0	0
3701	2	81.3	0	0	0
3705	2	80.5	0	0	0
3803	1	53.2	0	0	0
3807	2	77	0	0	0
3904	3	104	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
32204	3	104	0	0	0
32301	2	81.3	0	0	0
32305	2	85.2	0	0	0
3702	3	103.4	0	0	0
3706	2	77	0	0	0
3804	3	104	0	0	0
3901	2	81.3	0	0	0
3905	2	85.2	0	0	0

Description of project

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

Common areas of unit building - Building3

Common area	Floor area (m²)
Mec vent plant or service room	41

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building3

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for multi-dwelling housing

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

3. Commitments for single dwelling houses

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

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

(b) 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 - Building3

(a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above enclosed subfloor, frame: suspended concrete slab	532	-	-
suspended floor above open subfloor, frame: suspended concrete slab	24	-	-
suspended floor above open subfloor, frame: suspended concrete slab	590	-	-
floors above habitable rooms, frame: suspended concrete slab	9331	-	-
suspended floor above enclosed subfloor, frame: suspended concrete slab	2000	-	-

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (metal clad), frame:light steel frame	5291	-	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	9143	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	4014	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	140	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: light steel frame	928	-	-

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	3020	-	3020	-	-	-	-

(b) 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.	✓	✓	✓

	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
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	5 star	5 star	-	not specified	4 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	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.	✓	✓	✓
(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;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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 with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	4 star	8.0 star	no	no

(iii) Thermal Performance	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)	Area adjusted total load (in MJ/m ² /yr)
31001	21.20	10.2	31.400
31002	10.70	7.6	18.300
31003	9.80	6.6	16.400
31004	12.40	4	16.400

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
31005	8.90	7.9	16.800
31006	23.50	8.6	32.100
31007	23.60	4.3	27.900
31101	21.50	10.3	31.800
31102	10.90	7.4	18.300
All other dwellings	10.00	10	20.000

(c) 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 bank (No. 1)	-	-	light-emitting diode	connected to lift call button	no
Garbage rooms	ventilation supply only	none i.e., continuous	light-emitting diode	motion sensors	no
Mec vent plant or service room	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	no
Podium lobby	ventilation supply only	time clock or BMS controlled	light-emitting diode	daylight sensors	no
Hallway/lobby type	ventilation supply only	time clock or BMS controlled	light-emitting diode	zoned switching with motion sensor	no

Central energy systems	Type	Specification
Lift bank (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 17 number of levels from the bottom of the lift shaft to the top of the lift shaft: 25 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Central hot water system (No. 1)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

2. Commitments for multi-dwelling housing

(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.	✓	✓	✓
(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.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✓	✓	✓
(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".		✓	
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		✓	

3. Commitments for single dwelling houses

(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.	✓	✓	✓
(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.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✓	✓	✓
(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".		✓	
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		✓	

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

(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

(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.	✓	✓	✓

Central energy systems	Type	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 0 peak kW
Other	-	-

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).

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	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 4								
001	4001	2	84.8	0	6.1	13.6	8.1	
002	4002	2	84.8	0	22.7	10.6	6.6	Glazing upgrade 1
003	4003	2	81.7	0	24.2	5.7	7	
101	4101	2	84.8	0	6.2	14.1	8.1	
102	4102	2	84.8	0	24	11.6	6.3	
103	4103	2	81.7	0	15.4	5.8	7.9	
104	4104	2	83.3	0	11.3	6.1	8.4	
105	4105	2	88.4	0	9.7	16.7	7.4	
106	4106	3	108.6	0	15.6	21.1	6.2	
201	4201	2	84.8	0	6.8	13.8	8	
202	4202	2	84.8	0	24.6	12.3	6.1	
203	4203	2	81.7	0	16	6.8	7.8	
204	4204	2	83.3	0	12	5.9	8.3	
205	4205	2	88.5	0	8.8	16.6	7.4	
206	4206	3	108.6	0	11.1	19	6.9	Glazing upgrade 1
301	4301	2	84.8	0	7.4	13.4	8	
302	4302	2	84.8	0	20.6	11.1	6.8	Glazing upgrade 1
303	4303	2	81.7	0	16.5	7	7.7	
304	4304	2	83.3	0	12.7	5.6	8.3	
305	4305	2	88.6	0	9.1	15.8	7.5	
306	4306	3	108.7	0	14.8	20.9	6.3	
401	4401	2	84.8	0	10.2	11.1	7.9	
402	4402	2	84.8	0	24.2	10.3	6.4	Glazing upgrade 1
403	4403	2	81.7	0	20.6	6.4	7.3	
404	4404	2	83.3	0	16.6	5.4	7.9	
405	4405	2	88.6	0	12.5	13.1	7.4	
406	4406	3	108.7	0	18.7	19	6	
501	4501	2	84.8	0	10.6	10.9	7.9	
502	4502	2	84.8	0	23.9	10.8	6.4	Glazing upgrade 1
503	4503	2	81.7	0	20.4	7.3	7.2	
504	4504	2	83.3	0	16.9	5.6	7.8	
505	4505	3	88.7	0	12.8	12.9	7.4	
506	4506	2	108.8	0	14.9	16.3	6.9	Glazing upgrade 1
601	4601	2	84.8	0	11.2	10.8	7.9	

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
602	4602	2	84.8	0	24.2	10.6	6.4	Glazing upgrade 1
603	4603	2	81.7	0	20.8	6.9	7.2	
604	4604	2	83.3	0	17.6	5.6	7.7	
605	4605	2	88.7	0	13.5	12.8	7.4	
606	4606	3	108.8	0	15.4	16.1	6.8	Glazing upgrade 1
701	4701	2	84.8	0	11.5	10.7	7.9	
702	4702	2	84.8	0	24.3	10.7	6.4	Glazing upgrade 1
703	4703	2	81.7	0	20.8	6.8	7.2	
704	4704	2	83.3	0	17.6	5.6	7.7	
705	4705	2	88.7	0	13.7	12.6	7.4	
706	4706	3	108.8	0	15.7	16.1	6.8	Glazing upgrade 1
801	4801	2	84.8	0	11.9	10.6	7.8	
802	4802	2	84.8	0	25	10.4	6.3	Glazing upgrade 1
803	4803	2	81.7	0	21.6	6.9	7.1	
804	4804	2	83.3	0	18.3	5.7	7.6	
805	4805	2	88.8	0	14	12.6	7.3	
806	4806	3	108.8	0	16	15.6	6.8	Glazing upgrade 1
901	4901	2	84.8	0	12.1	10.7	7.8	
902	4902	2	84.8	0	25.3	10.4	6.3	Glazing upgrade 1
903	4903	2	81.7	0	21.8	6.9	7.1	
904	4904	2	83.3	0	18.5	5.4	7.6	
905	4905	2	88.8	0	14.3	12.7	7.3	
906	4906	3	108.8	0	16.4	15.3	6.8	Glazing upgrade 1
1001	41001	2	84.8	0	14.2	9.5	7.7	
1002	41002	2	84.8	0	26.6	8.9	6.3	Glazing upgrade 1
1003	41003	2	81.7	0	22.9	7.8	6.9	
1004	41004	1	59.7	0	22.6	8.6	6.9	
1005	41005	3	116	0	20.8	11.1	6.8	
1006	41006	3	110.4	0	18.1	15.3	6.6	Glazing upgrade 1
1101	41101	2	84.8	0	14.5	9.5	7.6	
1102	41102	2	84.8	0	26.8	8.9	6.3	Glazing upgrade 1
1103	41103	2	81.7	0	24.7	8	6.7	
1104	41104	1	59.7	0	22.6	9.3	6.8	
1105	41105	3	116	0	20.9	10.7	6.8	
1106	41106	3	110.4	0	18	15.2	6.6	Glazing upgrade 1

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1201	41201	2	84.8	0	14.7	9.4	7.6	
1202	41202	2	84.8	0	26.8	9	6.3	Glazing upgrade 1
1203	41203	2	81.7	0	23	8.3	6.8	
1204	41204	1	59.7	0	21.8	9.5	6.8	
1205	41205	3	116	0	20.8	11.1	6.8	
1206	41206	3	110.4	0	18.7	15.2	6.5	Glazing upgrade 1
1301	41301	2	84.8	0	14.7	9.3	7.6	
1302	41302	2	84.8	0	26.1	9.3	6.3	Glazing upgrade 1
1303	41303	2	81.7	0	22.6	8.8	6.8	
1304	41304	1	59.7	0	18.5	9.5	7.2	
1305	41305	3	116	0	21	12	6.6	
1306	41306	3	110.4	0	18.7	15	6.5	Glazing upgrade 1
1401	41401	2	84.8	0	14.9	9.2	7.6	
1402	41402	2	84.8	0	25.4	9.2	6.4	Glazing upgrade 1
1403	41403	2	81.7	0	22.8	9.1	6.8	
1404	41404	1	59.7	0	18.6	10.1	7.1	
1405	41405	3	116	0	21.1	12.4	6.6	
1406	41406	3	110.4	0	18.7	15	6.5	Glazing upgrade 1
1501	41501	2	84.8	0	15	9.3	7.6	
1502	41502	2	84.8	0	25	9.3	6.4	Glazing upgrade 1
1503	41503	2	81.7	0	22.6	9.7	6.7	
1504	41504	1	59.7	0	18.3	9.7	7.2	
1505	41505	3	116	0	20.9	12.4	6.6	
1506	41506	3	110.4	0	18.8	15.2	6.5	Glazing upgrade 1
1601	41601	2	84.8	0	14.9	9.4	7.6	
1602	41602	2	84.8	0	24.1	9.4	6.6	Glazing upgrade 1
1603	41603	2	81.7	0	21.6	10	6.8	
1604	41604	1	59.7	0	18.3	11	7.1	
1605	41605	3	116	0	20.8	15	6.3	
1606	41606	3	110.4	0	18.5	15.3	6.5	Glazing upgrade 1
1701	41701	2	84.8	0	22.7	11.4	6.4	
1702	41702	2	84.8	0	27.4	10	6.1	Glazing upgrade 2 R4.0 ceiling insulation
1703	41703	2	81.7	0	25.5	10.5	6.3	Glazing upgrade 1
1704	41704	1	59.7	0	21.6	11.1	6.7	Glazing upgrade 1

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1705	41705	3	116	0	20.7	11.9	6.7	Glazing upgrade 3 R4.0 ceiling insulation R2.5 external wall insulation
1706	41706	3	110.4	0	20.8	12.2	6.6	Glazing upgrade 3 R4.0 ceiling insulation R2.5 external wall insulation
Building 5								
001	5001	4	163.5	0	10.5	16.5	7.3	
002	5002	3	125	0	2.5	7.9	9.3	
005	5005	1	55.9	0	3.3	5.9	9.4	
006	5006	3	125	0	2.7	8.4	9.2	
007	5007	4	152.3	0	14.8	10.6	7.4	
101	5101	3	102.5	0	7.9	7.9	8.5	
102	5102	2	71.8	0	1.8	5	9.9	
105	5105	1	55.9	0	3.6	5.8	9.4	
106	5106	2	71.8	0	1.7	4.9	9.9	
107	5107	3	102.5	0	4.7	8.8	8.8	
201	5201	3	102.5	0	8.7	7.6	8.4	
202	5202	2	71.8	0	2.1	5	9.8	
205	5205	1	55.9	0	4.2	5.8	9.3	
206	5206	2	71.8	0	2.1	5	9.8	
207	5207	3	102.5	0	5.6	8.7	8.7	
301	5301	3	102.5	0	11.5	6.3	8.3	
302	5302	2	71.8	0	3.4	4.6	9.7	
305	5305	1	55.9	0	6.5	5.2	9	
306	5306	2	71.8	0	3.4	4.6	9.7	
307	5307	3	102.5	0	8	7	8.6	
401	5401	3	102.5	0	11.8	6.5	8.3	
402	5402	2	71.8	0	3.6	4.6	9.6	
405	5405	1	55.9	0	7.1	5	8.9	
406	5406	2	71.8	0	3.7	4.7	9.6	
407	5407	3	102.5	0	8.5	7.1	8.6	
501	5501	3	102.5	0	12.2	6.3	8.2	
502	5502	2	71.8	0	3.9	4.9	9.5	
505	5505	1	55.9	0	7.8	5.4	8.8	
506	5506	2	71.8	0	3.9	4.8	9.5	

Certificate # HR-AY94VZ-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
507	5507	3	102.5	0	8.8	7.2	8.5	
601	5601	2	91.8	0	14.5	3.1	8.3	
602	5602	2	83.5	0	29.9	5.3	6.4	Glazing upgrade 2
603	5603	3	102.5	0	12.1	6.3	8.3	
604	5604	2	71.8	0	3.9	4.8	9.6	
605	5605	2	71.8	0	2.7	6.5	9.4	
606	5606	3	102.5	0	6.8	7.6	8.7	
607	5607	2	83.5	0	30.8	5.8	6.2	Glazing upgrade 1
608	5608	2	91.8	0	12.9	3.3	8.4	
701	5701	2	91.8	0	14.6	2.9	8.3	
702	5702	2	83.5	0	29.8	5.3	6.4	Glazing upgrade 2
703	5703	3	102.5	0	12.3	6.3	8.2	
704	5704	2	71.8	0	3.9	4.7	9.6	
705	5705	2	71.8	0	3.2	6.6	9.4	
706	5706	3	102.5	0	6.9	8.1	8.6	
707	5707	2	83.5	0	30.7	5.7	6.2	Glazing upgrade 1
708	5708	2	91.8	0	13	3.1	8.4	
801	5801	2	91.8	0	15.1	3.1	8.3	
802	5802	2	83.5	0	30.2	5	6.4	Glazing upgrade 2
803	5803	3	102.5	0	12.7	6.4	8.2	
804	5804	2	71.8	0	4.1	4.9	9.5	
805	5805	2	71.8	0	3.4	6.5	9.4	
806	5806	3	102.5	0	7.2	8.7	8.5	
807	5807	2	83.5	0	31.1	5.9	6.1	Glazing upgrade 1
808	5808	2	91.8	0	13.5	3.2	8.4	
901	5901	2	91.8	0	17.1	2.9	8.1	
902	5902	2	83.5	0	32	4.5	6.2	Glazing upgrade 2
903	5903	3	102.5	0	14.5	6.3	8	
904	5904	2	71.8	0	5.1	4.8	9.4	
905	5905	2	71.8	0	4.1	6	9.3	
906	5906	3	102.5	0	8.4	9.7	8.3	
907	5907	2	83.5	0	28.5	5.3	6.5	Glazing upgrade 2
908	5908	2	91.8	0	15.3	3.1	8.3	
1001	51001	2	92.4	0	17.3	2.9	8.1	
1002	51002	2	91.8	0	32.1	4.7	6.1	Glazing upgrade 2

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Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1003	51003	3	83.5	0	14.9	6.4	7.9	
1004	51004	2	102.5	0	5.4	5.1	9.3	
1005	51005	2	71.8	0	4.4	6.2	9.2	
1006	51006	3	71.8	0	8.7	11	8.1	
1007	51007	2	102.5	0	28.4	5.5	6.5	Glazing upgrade 2
1008	51008	2	83.5	0	15.5	3.1	8.2	
1101	51101	2	91.8	0	17.7	2.7	8.1	
1102	51102	2	83.5	0	32.2	5	6.1	Glazing upgrade 2
1103	51103	3	102.5	0	14.8	6.3	7.9	
1104	51104	2	71.8	0	5.4	4.8	9.3	
1105	51105	2	71.8	0	5.2	4.8	9.3	
1106	51106	3	102.5	0	9.3	11.7	8	
1107	51107	2	83.5	0	28.3	5.9	6.4	Glazing upgrade 2
1108	51108	2	91.7	0	15.9	3	8.2	
1201	51201	2	91.7	0	17.9	2.8	8	
1202	51202	2	83.5	0	32.3	5	6.1	Glazing upgrade 2
1203	51203	3	102.5	0	14.6	6.5	7.9	
1204	51204	2	71.8	0	5.3	4.9	9.3	
1205	51205	2	71.8	0	5.4	4.7	9.3	
1206	51206	3	102.5	0	8.5	16	7.6	
1207	51207	2	83.5	0	28.1	6.1	6.4	Glazing upgrade 2
1208	51208	2	91.7	0	16	3	8.2	
1301	51301	2	91.7	0	18.1	2.8	8	
1302	51302	2	83.5	0	32.2	4.9	6.1	Glazing upgrade 2
1303	51303	3	102.5	0	14.9	6.3	7.9	
1304	51304	2	71.8	0	5.4	4.9	9.3	
1305	51305	2	71.8	0	5.4	4.7	9.3	
1306	51306	3	102.5	0	8.9	20	7.1	
1307	51307	2	83.5	0	27.2	6.5	6.5	Glazing upgrade 2
1308	51308	2	91.7	0	16.2	3	8.2	
1401	51401	2	91.7	0	18.3	2.9	7.9	
1402	51402	2	83.5	0	32.3	4.8	6.1	Glazing upgrade 2
1403	51403	3	102.5	0	15	6.4	7.9	
1404	51404	2	71.8	0	5.6	4.8	9.3	
1405	51405	2	71.8	0	5.6	4.7	9.3	

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1406	51406	3	102.5	0	6	20.9	7.3	Glazing upgrade 1
1407	51407	2	83.5	0	24.4	7	6.8	Glazing upgrade 2
1408	51408	2	91.7	0	16.5	3	8.2	
1501	51501	2	91.7	0	18.5	2.9	7.9	
1502	51502	2	83.5	0	32.1	5.1	6.1	Glazing upgrade 2
1503	51503	3	102.5	0	15	6.9	7.9	
1504	51504	2	71.8	0	5.6	4.8	9.3	
1505	51505	2	71.8	0	5.7	4.6	9.3	
1506	51506	3	102.5	0	4.3	14.7	8.2	Glazing upgrade 3
1507	51507	2	83.5	0	21.6	7	7.1	Glazing upgrade 2
1508	51508	2	91.7	0	16.7	2.9	8.1	
1601	51601	2	91.7	0	18.6	2.9	7.9	
1602	51602	2	83.5	0	31.9	5.4	6.1	Glazing upgrade 2
1603	51603	3	102.5	0	14.9	7.3	7.9	
1604	51604	2	71.8	0	5.7	4.8	9.2	
1605	51605	2	71.8	0	5.8	4.6	9.3	
1606	51606	3	102.5	0	3.9	16.1	8.1	Glazing upgrade 3
1607	51607	2	83.5	0	18.5	7.1	7.4	Glazing upgrade 2
1608	51608	2	91.7	0	16.7	3	8.1	
1701	51701	2	91.7	0	18.7	2.9	7.9	
1702	51702	2	83.5	0	31.2	5.6	6.1	Glazing upgrade 2
1703	51703	3	102.5	0	14.7	8	7.8	
1704	51704	2	71.8	0	5.8	4.8	9.2	
1705	51705	2	71.8	0	6.1	4.7	9.2	
1706	51706	3	102.5	0	3.5	17	8	Glazing upgrade 3
1707	51707	2	83.5	0	16.3	7	7.7	Glazing upgrade 2
1708	51708	2	91.7	0	16.9	3.1	8.1	
1801	51801	2	91.7	0	30.9	3.7	6.4	
1802	51802	2	83.5	0	30.8	6.2	6.1	Glazing upgrade 2
1803	51803	3	102.5	0	14.4	10.2	7.6	
1804	51804	2	71.8	0	5.8	4.9	9.2	
1805	51805	2	71.8	0	16.1	6.4	7.8	
1806	51806	3	102.5	0	11.1	17.8	7.1	Glazing upgrade 3 R4.0 ceiling insulation
1807	51807	2	83.5	0	25.3	8.8	6.4	Glazing upgrade 2

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1808	51808	2	91.7	0	29	3.9	6.6	
1902	51902	2	83.5	0	26.6	7.6	6.4	Glazing upgrade 4
1903	51903	3	102.5	0	18.9	14.1	6.6	Glazing upgrade 2
1904	51904	2	71.8	0	17.6	8.5	7.4	

Nationwide House Energy Rating Scheme® Class 2 Summary

NatHERS® Certificate No. #HR-AY94VZ-01

Generated on 05 Nov 2024 using Hero 4.1

Property

Address 1 Crescent Street, Holbroyd, NSW, 2142
Lot/DP 700/-/DP1241836
NatHERS climate zone 56 - Mascot AMO



Accredited assessor

Name Haylea Edwards
Business name haylea@efficientliving.com.au
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Phone +61 9970 6181
Accreditation No. 10213
Assessor Accrediting Organisation HERA

Verification

To verify this certificate,
scan the QR code or visit
<http://www.hero-software.com.au/pdf/HR-AY94VZ-01>.
When using either link,
ensure you are visiting
<http://www.hero-software.com.au>



National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

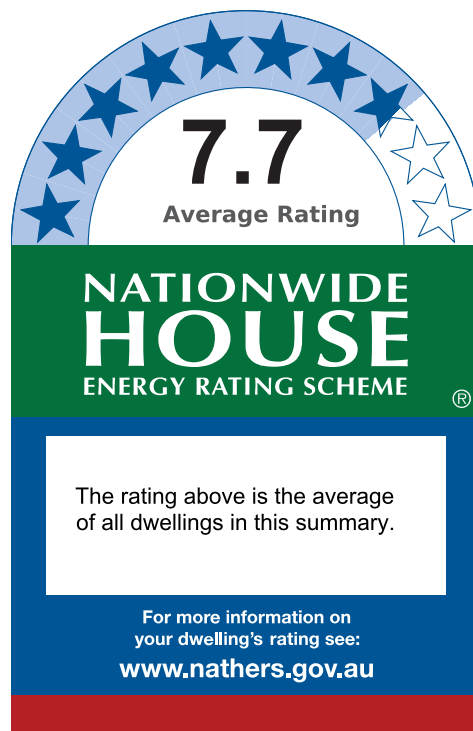
The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m².yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Rating
HR-GECVJY-01	4001	6.1 (34)	13.6 (21)	19.7	8.1	n/a
HR-25TCN-01	4002	22.7 (34)	10.6 (21)	33.3	6.6	n/a
HR-NZ2BND-01	4003	24.2 (34)	5.7 (21)	29.9	7.0	n/a

Thermal performance Star rating



NCC heating and cooling maximum loads MJ/m².yr

Limits taken from ABCB Standard 2022

	Heating	Cooling
Average load	15.6	8.3
Maximum load	32.3	21.1
Average limit	28.1	20.0
Maximum limit	34.4	21.4

Whole of Home performance rating

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

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-C5K9UR-01	41001	14.2 (34)	9.5 (21)	23.7	7.7	n/a
HR-KAMLDJ-01	41002	26.6 (34)	8.9 (21)	35.5	6.3	n/a
HR-I82INM-01	41003	22.9 (34)	7.8 (21)	30.6	6.9	n/a
HR-FVKD95-01	41004	22.6 (34)	8.6 (21)	31.2	6.9	n/a
HR-BSFA59-01	41005	20.8 (34)	11.1 (21)	31.9	6.8	n/a
HR-EPNIOE-01	41006	18.1 (34)	15.3 (21)	33.4	6.6	n/a
HR-4891LR-01	4101	6.2 (34)	14.1 (21)	20.3	8.1	n/a
HR-STIPW2-01	4102	24.0 (34)	11.6 (21)	35.6	6.3	n/a
HR-P09FMF-01	4103	15.4 (34)	5.8 (21)	21.3	7.9	n/a
HR-BE6OXM-01	4104	11.3 (34)	6.1 (21)	17.4	8.4	n/a
HR-ZMZR57-01	4105	9.7 (34)	16.7 (21)	26.4	7.4	n/a
HR-YJBWFI-01	4106	15.6 (34)	21.1 (21)	36.6	6.2	n/a
HR-IWN0OF-01	41101	14.5 (34)	9.5 (21)	24.0	7.6	n/a
HR-NQNGJZ-01	41102	26.8 (34)	8.9 (21)	35.7	6.3	n/a
HR-YP46ZW-01	41103	24.7 (34)	8.0 (21)	32.7	6.7	n/a
HR-RVL6CT-01	41104	22.6 (34)	9.3 (21)	31.9	6.8	n/a
HR-T4J6WA-01	41105	20.9 (34)	10.7 (21)	31.6	6.8	n/a
HR-83SCHL-01	41106	18.0 (34)	15.2 (21)	33.2	6.6	n/a
HR-NQX4J8-01	41201	14.7 (34)	9.4 (21)	24.1	7.6	n/a
HR-UPVLL3-01	41202	26.8 (34)	9.0 (21)	35.8	6.3	n/a
HR-WKVQFI-01	41203	23.0 (34)	8.3 (21)	31.3	6.8	n/a
HR-367IYA-01	41204	21.8 (34)	9.5 (21)	31.3	6.8	n/a
HR-7JPMZK-01	41205	20.8 (34)	11.1 (21)	31.9	6.8	n/a
HR-DB7FPJ-01	41206	18.7 (34)	15.2 (21)	33.9	6.5	n/a
HR-7G6OE1-01	41301	14.7 (34)	9.3 (21)	24.0	7.6	n/a
HR-TMIA6I-01	41302	26.1 (34)	9.3 (21)	35.4	6.3	n/a
HR-3AKU9D-01	41303	22.6 (34)	8.8 (21)	31.5	6.8	n/a
HR-8H6PXX-01	41304	18.5 (34)	9.5 (21)	28.0	7.2	n/a
HR-JOF1YY-01	41305	21.0 (34)	12.0 (21)	33.0	6.6	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-4IEM64-01	41306	18.7 (34)	15.0 (21)	33.7	6.5	n/a
HR-XG376X-01	41401	14.9 (34)	9.2 (21)	24.1	7.6	n/a
HR-ETSMNN-01	41402	25.4 (34)	9.2 (21)	34.5	6.4	n/a
HR-P5QWIF-01	41403	22.8 (34)	9.1 (21)	31.9	6.8	n/a
HR-UNPHON-01	41404	18.6 (34)	10.1 (21)	28.7	7.1	n/a
HR-AX95BT-01	41405	21.1 (34)	12.4 (21)	33.5	6.6	n/a
HR-CWSS1E-01	41406	18.7 (34)	15.0 (21)	33.7	6.5	n/a
HR-X5O46C-01	41501	15.0 (34)	9.3 (21)	24.3	7.6	n/a
HR-XFSBPM-01	41502	25.0 (34)	9.3 (21)	34.3	6.4	n/a
HR-WQIIWJ-01	41503	22.6 (34)	9.7 (21)	32.3	6.7	n/a
HR-Z3XIC0-01	41504	18.3 (34)	9.7 (21)	28.0	7.2	n/a
HR-ZHVJBT-01	41505	20.9 (34)	12.4 (21)	33.4	6.6	n/a
HR-5BDPCU-01	41506	18.8 (34)	15.2 (21)	34.0	6.5	n/a
HR-19CDI5-01	41601	14.9 (34)	9.4 (21)	24.2	7.6	n/a
HR-6V1UNT-01	41602	24.1 (34)	9.4 (21)	33.5	6.6	n/a
HR-ZGZV92-01	41603	21.6 (34)	10.0 (21)	31.6	6.8	n/a
HR-PF2WN1-01	41604	18.3 (34)	11.0 (21)	29.3	7.1	n/a
HR-PHL30S-01	41605	20.8 (34)	15.0 (21)	35.8	6.3	n/a
HR-Y50OXX-01	41606	18.5 (34)	15.3 (21)	33.9	6.5	n/a
HR-1T4BJV-01	41701	22.7 (34)	11.4 (21)	34.1	6.4	n/a
HR-48IO86-01	41702	27.4 (34)	10.0 (21)	37.4	6.1	n/a
HR-QZGGBU-01	41703	25.5 (34)	10.5 (21)	36.0	6.3	n/a
HR-L3K2NQ-01	41704	21.6 (34)	11.1 (21)	32.7	6.7	n/a
HR-XVX84Z-01	41705	20.7 (34)	11.9 (21)	32.5	6.7	n/a
HR-M2YJC6-01	41706	20.8 (34)	12.2 (21)	33.0	6.6	n/a
HR-UJGY1E-01	4201	6.8 (34)	13.8 (21)	20.6	8.0	n/a
HR-2W8GR9-01	4202	24.6 (34)	12.3 (21)	36.9	6.1	n/a
HR-GH0LFC-01	4203	16.0 (34)	6.8 (21)	22.8	7.8	n/a
HR-0PRH6F-01	4204	12.0 (34)	5.9 (21)	17.9	8.3	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-E900CC-01	4205	8.8 (34)	16.6 (21)	25.4	7.4	n/a
HR-6YIHDP-01	4206	11.1 (34)	19.0 (21)	30.1	6.9	n/a
HR-EU8FRT-01	4301	7.4 (34)	13.4 (21)	20.9	8.0	n/a
HR-BP5AK4-01	4302	20.6 (34)	11.1 (21)	31.7	6.8	n/a
HR-JA43BZ-01	4303	16.5 (34)	7.0 (21)	23.5	7.7	n/a
HR-IW814K-01	4304	12.7 (34)	5.6 (21)	18.3	8.3	n/a
HR-7DZI3B-01	4305	9.1 (34)	15.8 (21)	24.9	7.5	n/a
HR-XT67UY-01	4306	14.8 (34)	20.9 (21)	35.8	6.3	n/a
HR-030FR0-01	4401	10.2 (34)	11.1 (21)	21.3	7.9	n/a
HR-QKF8H6-01	4402	24.2 (34)	10.3 (21)	34.5	6.4	n/a
HR-Y57H4G-01	4403	20.6 (34)	6.4 (21)	27.0	7.3	n/a
HR-XH0QND-01	4404	16.6 (34)	5.4 (21)	22.1	7.9	n/a
HR-EJCK69-01	4405	12.5 (34)	13.1 (21)	25.6	7.4	n/a
HR-4F4RV5-01	4406	18.7 (34)	19.0 (21)	37.7	6.0	n/a
HR-TGPONR-01	4501	10.6 (34)	10.9 (21)	21.6	7.9	n/a
HR-X2UJTD-01	4502	23.9 (34)	10.8 (21)	34.7	6.4	n/a
HR-7AFLO7-01	4503	20.4 (34)	7.3 (21)	27.7	7.2	n/a
HR-ISL53G-01	4504	16.9 (34)	5.6 (21)	22.5	7.8	n/a
HR-D7DOM8-01	4505	12.8 (34)	12.9 (21)	25.7	7.4	n/a
HR-2ONEPN-01	4506	14.9 (34)	16.3 (21)	31.2	6.9	n/a
HR-HCDR8O-01	4601	11.2 (34)	10.8 (21)	21.9	7.9	n/a
HR-DGGZSU-01	4602	24.2 (34)	10.6 (21)	34.8	6.4	n/a
HR-O2OT3R-01	4603	20.8 (34)	6.9 (21)	27.8	7.2	n/a
HR-Q2P8KU-01	4604	17.6 (34)	5.6 (21)	23.2	7.7	n/a
HR-HNC885-01	4605	13.5 (34)	12.8 (21)	26.2	7.4	n/a
HR-9KLPOF-01	4606	15.4 (34)	16.1 (21)	31.5	6.8	n/a
HR-2NLABU-01	4701	11.5 (34)	10.7 (21)	22.2	7.9	n/a
HR-OEEVIG-01	4702	24.3 (34)	10.7 (21)	35.1	6.4	n/a
HR-DWCAVV-01	4703	20.8 (34)	6.8 (21)	27.6	7.2	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-K5CB76-01	4704	17.6 (34)	5.6 (21)	23.2	7.7	n/a
HR-ES4KAD-01	4705	13.7 (34)	12.6 (21)	26.3	7.4	n/a
HR-4IF4RI-01	4706	15.7 (34)	16.1 (21)	31.8	6.8	n/a
HR-HSG5NV-01	4801	11.9 (34)	10.6 (21)	22.5	7.8	n/a
HR-FXXN3I-01	4802	25.0 (34)	10.4 (21)	35.3	6.3	n/a
HR-WFT1PA-01	4803	21.6 (34)	6.9 (21)	28.5	7.1	n/a
HR-RMA0V7-01	4804	18.3 (34)	5.7 (21)	24.0	7.6	n/a
HR-H4FBEU-01	4805	14.0 (34)	12.6 (21)	26.6	7.3	n/a
HR-GJWT1S-01	4806	16.0 (34)	15.6 (21)	31.6	6.8	n/a
HR-7PYQ1G-01	4901	12.1 (34)	10.7 (21)	22.8	7.8	n/a
HR-TZ2KX3-01	4902	25.3 (34)	10.4 (21)	35.7	6.3	n/a
HR-KKX8Q2-01	4903	21.8 (34)	6.9 (21)	28.7	7.1	n/a
HR-4OD1P3-01	4904	18.5 (34)	5.4 (21)	23.8	7.6	n/a
HR-6BETUD-01	4905	14.3 (34)	12.7 (21)	27.0	7.3	n/a
HR-AHPS8Z-01	4906	16.3 (34)	15.4 (21)	31.7	6.8	n/a
HR-3YKRU7-01	5001	10.5 (34)	16.5 (21)	27.0	7.3	n/a
HR-P6UCDQ-01	5002	2.5 (34)	7.9 (21)	10.5	9.3	n/a
HR-HPR2IA-01	5005	3.3 (34)	5.9 (21)	9.2	9.4	n/a
HR-MXF99F-01	5006	2.7 (34)	8.4 (21)	11.0	9.2	n/a
HR-40EBY6-01	5007	14.8 (34)	10.6 (21)	25.3	7.4	n/a
HR-G8NQ7J-01	51001	17.3 (34)	2.9 (21)	20.2	8.1	n/a
HR-24DY9U-01	51002	32.1 (34)	4.7 (21)	36.8	6.1	n/a
HR-7EVR6G-01	51003	14.9 (34)	6.4 (21)	21.3	7.9	n/a
HR-RBK271-01	51004	5.4 (34)	5.1 (21)	10.5	9.3	n/a
HR-95SG35-01	51005	4.4 (34)	6.2 (21)	10.5	9.2	n/a
HR-HE4KBM-01	51006	8.7 (34)	11.0 (21)	19.7	8.1	n/a
HR-6V1CI5-01	51007	28.4 (34)	5.5 (21)	33.9	6.5	n/a
HR-Y8H38I-01	51008	15.5 (34)	3.1 (21)	18.6	8.2	n/a
HR-ANSMIT-01	5101	7.9 (34)	7.9 (21)	15.8	8.5	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-HUTUEX-01	5102	1.8 (34)	5.0 (21)	6.8	9.9	n/a
HR-2VM5GN-01	5105	3.6 (34)	5.8 (21)	9.4	9.4	n/a
HR-EX5HEP-01	5106	1.7 (34)	4.9 (21)	6.6	9.9	n/a
HR-1Z5FH0-01	5107	4.7 (34)	8.8 (21)	13.5	8.8	n/a
HR-63YXAW-01	51101	17.7 (34)	2.7 (21)	20.5	8.1	n/a
HR-HCXC3K-01	51102	32.2 (34)	5.0 (21)	37.2	6.1	n/a
HR-IREPTS-01	51103	14.8 (34)	6.3 (21)	21.2	7.9	n/a
HR-5IIRV7-01	51104	5.4 (34)	4.8 (21)	10.1	9.3	n/a
HR-FZ3LVD-01	51105	5.2 (34)	4.8 (21)	10.0	9.3	n/a
HR-UZA2WE-01	51106	9.3 (34)	11.7 (21)	20.9	8.0	n/a
HR-UEJS4V-01	51107	28.3 (34)	5.9 (21)	34.2	6.4	n/a
HR-ALELSX-01	51108	15.9 (34)	3.0 (21)	18.9	8.2	n/a
HR-F1PNOM-01	51201	17.9 (34)	2.8 (21)	20.7	8.0	n/a
HR-PJ10ZL-01	51202	32.3 (34)	5.0 (21)	37.3	6.1	n/a
HR-A2TWXT-01	51203	14.6 (34)	6.5 (21)	21.2	7.9	n/a
HR-7CLIOV-01	51204	5.3 (34)	4.9 (21)	10.2	9.3	n/a
HR-6HUU0I-01	51205	5.4 (34)	4.7 (21)	10.1	9.3	n/a
HR-UWZVE7-01	51206	8.5 (34)	16.0 (21)	24.5	7.6	n/a
HR-9PE4GO-01	51207	28.1 (34)	6.1 (21)	34.2	6.4	n/a
HR-YXKO8V-01	51208	16.0 (34)	3.0 (21)	19.0	8.2	n/a
HR-16SN49-01	51301	18.1 (34)	2.8 (21)	20.9	8.0	n/a
HR-LUAP38-01	51302	32.2 (34)	4.9 (21)	37.1	6.1	n/a
HR-EM167V-01	51303	14.9 (34)	6.3 (21)	21.2	7.9	n/a
HR-VV5I20-01	51304	5.4 (34)	4.9 (21)	10.3	9.3	n/a
HR-55ZSF0-01	51305	5.4 (34)	4.7 (21)	10.1	9.3	n/a
HR-G2T5AD-01	51306	8.9 (34)	20.0 (21)	28.9	7.1	n/a
HR-KWU9CT-01	51307	27.2 (34)	6.5 (21)	33.8	6.5	n/a
HR-F67F9D-01	51308	16.2 (34)	3.0 (21)	19.2	8.2	n/a
HR-NTINOQ-01	51401	18.3 (34)	2.9 (21)	21.2	7.9	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-4F5YAL-01	51402	32.3 (34)	4.8 (21)	37.1	6.1	n/a
HR-N0L67H-01	51403	15.0 (34)	6.4 (21)	21.5	7.9	n/a
HR-H59NQO-01	51404	5.6 (34)	4.8 (21)	10.4	9.3	n/a
HR-ZTJZ52-01	51405	5.6 (34)	4.7 (21)	10.3	9.3	n/a
HR-ZTM4XB-01	51406	6.0 (34)	20.9 (21)	26.8	7.3	n/a
HR-6D6COV-01	51407	24.4 (34)	7.0 (21)	31.4	6.8	n/a
HR-J4G90I-01	51408	16.5 (34)	3.0 (21)	19.5	8.2	n/a
HR-L0NO20-01	51501	18.5 (34)	2.9 (21)	21.4	7.9	n/a
HR-RIBBI1-01	51502	32.1 (34)	5.1 (21)	37.2	6.1	n/a
HR-HUJ2HZ-01	51503	15.0 (34)	6.9 (21)	21.9	7.9	n/a
HR-S7U7DQ-01	51504	5.6 (34)	4.8 (21)	10.5	9.3	n/a
HR-BYM90O-01	51505	5.7 (34)	4.6 (21)	10.3	9.3	n/a
HR-VL2JIZ-01	51506	4.3 (34)	14.7 (21)	19.0	8.2	n/a
HR-WMZNEG-01	51507	21.6 (34)	7.0 (21)	28.6	7.1	n/a
HR-21WNF5-01	51508	16.7 (34)	2.9 (21)	19.6	8.1	n/a
HR-6S04HI-01	51601	18.6 (34)	2.9 (21)	21.5	7.9	n/a
HR-5LLYJC-01	51602	31.9 (34)	5.4 (21)	37.3	6.1	n/a
HR-JGZK68-01	51603	14.9 (34)	7.3 (21)	22.2	7.9	n/a
HR-IRKGO4-01	51604	5.7 (34)	4.8 (21)	10.5	9.2	n/a
HR-JKQZ44-01	51605	5.8 (34)	4.6 (21)	10.4	9.3	n/a
HR-OL5X44-01	51606	3.9 (34)	16.1 (21)	20.0	8.1	n/a
HR-YWX1SV-01	51607	18.5 (34)	7.1 (21)	25.6	7.4	n/a
HR-KBW8NR-01	51608	16.7 (34)	3.0 (21)	19.8	8.1	n/a
HR-LZV13H-01	51701	18.7 (34)	2.9 (21)	21.6	7.9	n/a
HR-HKX2CX-01	51702	31.2 (34)	5.6 (21)	36.8	6.1	n/a
HR-VIZAA0-01	51703	14.7 (34)	8.0 (21)	22.6	7.8	n/a
HR-UW2S3R-01	51704	5.8 (34)	4.8 (21)	10.6	9.2	n/a
HR-M7P4TD-01	51705	6.1 (34)	4.7 (21)	10.8	9.2	n/a
HR-EVZFVY-01	51706	3.5 (34)	17.0 (21)	20.5	8.0	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-YPLYN0-01	51707	16.3 (34)	7.0 (21)	23.3	7.7	n/a
HR-K4Z9NQ-01	51708	16.9 (34)	3.1 (21)	19.9	8.1	n/a
HR-VVS2DB-01	51801	30.9 (34)	3.7 (21)	34.6	6.4	n/a
HR-DIYO9S-01	51802	30.8 (34)	6.2 (21)	37.0	6.1	n/a
HR-U9YW HF-01	51803	14.4 (34)	10.2 (21)	24.6	7.6	n/a
HR-2USTI5-01	51804	5.8 (34)	4.9 (21)	10.6	9.2	n/a
HR-KVR16E-01	51805	16.1 (34)	6.4 (21)	22.5	7.8	n/a
HR-R6VZWH-01	51806	11.1 (34)	17.8 (21)	28.9	7.1	n/a
HR-L9UK2L-01	51807	25.3 (34)	8.8 (21)	34.1	6.4	n/a
HR-5X9LW8-01	51808	29.0 (34)	3.9 (21)	32.9	6.6	n/a
HR-M8LOYA-01	51902	26.6 (34)	7.6 (21)	34.2	6.4	n/a
HR-LW63GW-01	51903	18.9 (34)	14.1 (21)	33.0	6.6	n/a
HR-LYMSER-01	51904	17.6 (34)	8.5 (21)	26.2	7.4	n/a
HR-ZC53YM-01	5201	8.7 (34)	7.6 (21)	16.2	8.4	n/a
HR-1TZ88I-01	5202	2.1 (34)	5.0 (21)	7.1	9.8	n/a
HR-9UUNJX-01	5205	4.2 (34)	5.8 (21)	9.9	9.3	n/a
HR-LUK9O0-01	5206	2.1 (34)	5.0 (21)	7.1	9.8	n/a
HR-CLYB6X-01	5207	5.6 (34)	8.7 (21)	14.2	8.7	n/a
HR-JWIX4A-01	5301	11.5 (34)	6.3 (21)	17.8	8.3	n/a
HR-M79FUT-01	5302	3.4 (34)	4.6 (21)	8.0	9.7	n/a
HR-BOQS0H-01	5305	6.5 (34)	5.2 (21)	11.7	9.0	n/a
HR-643JHC-01	5306	3.4 (34)	4.6 (21)	8.0	9.7	n/a
HR-Z6W6XW-01	5307	8.0 (34)	7.0 (21)	15.0	8.6	n/a
HR-K513BK-01	5401	11.8 (34)	6.5 (21)	18.3	8.3	n/a
HR-T8BMLQ-01	5402	3.6 (34)	4.6 (21)	8.3	9.6	n/a
HR-BLK96T-01	5405	7.1 (34)	5.0 (21)	12.1	8.9	n/a
HR-P4FPTB-01	5406	3.7 (34)	4.7 (21)	8.4	9.6	n/a
HR-BEY1TY-01	5407	8.5 (34)	7.1 (21)	15.6	8.6	n/a
HR-VLBK39-01	5501	12.2 (34)	6.3 (21)	18.6	8.2	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-CIK7XY-01	5502	3.9 (34)	4.9 (21)	8.8	9.5	n/a
HR-TIVANN-01	5505	7.8 (34)	5.4 (21)	13.2	8.8	n/a
HR-5P96P8-01	5506	3.9 (34)	4.8 (21)	8.7	9.5	n/a
HR-0Q4F38-01	5507	8.8 (34)	7.2 (21)	16.0	8.5	n/a
HR-RWQSWO-01	5601	14.5 (34)	3.1 (21)	17.5	8.3	n/a
HR-Y6UG08-01	5602	29.9 (34)	5.3 (21)	35.1	6.4	n/a
HR-YISNJS-01	5603	12.1 (34)	6.3 (21)	18.4	8.3	n/a
HR-3XHS38-01	5604	3.9 (34)	4.8 (21)	8.6	9.6	n/a
HR-TDH904-01	5605	2.7 (34)	6.5 (21)	9.2	9.4	n/a
HR-WK884L-01	5606	6.8 (34)	7.6 (21)	14.4	8.7	n/a
HR-CBNZ90-01	5607	30.8 (34)	5.8 (21)	36.6	6.2	n/a
HR-27DJXN-01	5608	12.9 (34)	3.3 (21)	16.1	8.4	n/a
HR-773MQ8-01	5701	14.6 (34)	2.9 (21)	17.5	8.3	n/a
HR-GUCPTO-01	5702	29.8 (34)	5.3 (21)	35.1	6.4	n/a
HR-D0OVK8-01	5703	12.3 (34)	6.3 (21)	18.6	8.2	n/a
HR-PFOTHG-01	5704	3.9 (34)	4.7 (21)	8.7	9.6	n/a
HR-Y3IUPG-01	5705	3.2 (34)	6.6 (21)	9.8	9.4	n/a
HR-FKFC18-01	5706	6.9 (34)	8.1 (21)	15.0	8.6	n/a
HR-9Y1FVN-01	5707	30.7 (34)	5.7 (21)	36.4	6.2	n/a
HR-URS810-01	5708	13.0 (34)	3.1 (21)	16.2	8.4	n/a
HR-T9LH8Q-01	5801	15.1 (34)	3.1 (21)	18.2	8.3	n/a
HR-7IBO8B-01	5802	30.2 (34)	5.0 (21)	35.2	6.4	n/a
HR-Q2B1KQ-01	5803	12.7 (34)	6.4 (21)	19.1	8.2	n/a
HR-QOLWT9-01	5804	4.1 (34)	4.9 (21)	9.0	9.5	n/a
HR-0YPCAB-01	5805	3.4 (34)	6.5 (21)	9.9	9.4	n/a
HR-FH1UU1-01	5806	7.2 (34)	8.7 (21)	15.9	8.5	n/a
HR-XS6W1R-01	5807	31.1 (34)	5.9 (21)	37.0	6.1	n/a
HR-VEWYZH-01	5808	13.5 (34)	3.2 (21)	16.7	8.4	n/a
HR-WCFKWU-01	5901	17.1 (34)	2.9 (21)	20.1	8.1	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-SBPROV-01	5902	32.0 (34)	4.5 (21)	36.5	6.2	n/a
HR-PBENBB-01	5903	14.5 (34)	6.3 (21)	20.8	8.0	n/a
HR-J64ZS4-01	5904	5.1 (34)	4.8 (21)	9.9	9.4	n/a
HR-EGLYBM-01	5905	4.1 (34)	6.0 (21)	10.1	9.3	n/a
HR-5Z41EA-01	5906	8.4 (34)	9.7 (21)	18.0	8.3	n/a
HR-7MHQO0-01	5907	28.5 (34)	5.3 (21)	33.7	6.5	n/a
HR-C8TOUL-01	5908	15.3 (34)	3.1 (21)	18.4	8.3	n/a
Averages	242x (Total)	15.6	8.3	23.9	7.7	n/a
Maximum Loads and Minimum Ratings		32.3	21.1	37.7	6.0	n/a

Explanatory notes

About the ratings

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

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the energy loads and societal cost. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy production and storage to estimate the homes societal cost.

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

Accredited Assessors

For high quality NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

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

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in certificates is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy use, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

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

BASIX[®]Certificate

Building Sustainability Index www.basix.nsw.gov.au

Multi Dwelling

Certificate number: 1771727M

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.basix.nsw.gov.au

Secretary

Date of issue: Tuesday, 05 November 2024

To be valid, this certificate must be submitted with a development application or lodged with a complying development certificate application within 3 months of the date of issue.



Project summary

Project name	1 Crescent Street Holroyd - Phase 2
Street address	1 CRESCENT STREET HOLROYD 2142
Local Government Area	CUMBERLAND
Plan type and plan number	Deposited Plan 1241836
Lot No.	700
Section no.	-
No. of residential flat buildings	2
Residential flat buildings: no. of dwellings	242
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

Project score

Water	✓ 40	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 63	Target 63
Materials	✓ -100	Target n/a

Certificate Prepared by

Name / Company Name: Efficient Living Pty Ltd

ABN (if applicable): 82116346082

Description of project

Project address	
Project name	1 Crescent Street Holroyd - Phase 2
Street address	1 CRESCENT STREET HOLROYD 2142
Local Government Area	CUMBERLAND
Plan type and plan number	Deposited Plan 1241836
Lot No.	700
Section no.	-
Project type	
No. of residential flat buildings	2
Residential flat buildings: no. of dwellings	242
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	37904
Roof area (m²)	1970
Non-residential floor area (m²)	226
Residential car spaces	306
Non-residential car spaces	3

Common area landscape		
Common area lawn (m²)	2210	
Common area garden (m²)	3523	
Area of indigenous or low water use species (m²)	2467	
Assessor details and thermal loads		
Assessor number	HERA10213	
Certificate number	HR-AY94VZ-01	
Climate zone	56	
Project score		
Water	✔ 40	Target 40
Thermal Performance	✔ Pass	Target Pass
Energy	✔ 63	Target 63
Materials	✔ -100	Target n/a

Description of project

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

Residential flat buildings - Building4, 105 dwellings, 21 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)
4001	2	84.8	0	0	0
41002	2	84.8	0	0	0
41006	3	110.4	0	0	0
4104	2	83.3	0	0	0
41102	2	84.8	0	0	0
41106	3	110.4	0	0	0
41204	1	59.7	0	0	0
41302	2	84.8	0	0	0
41306	3	110.4	0	0	0
41404	1	59.7	0	0	0
41502	2	84.8	0	0	0
41506	3	110.4	0	0	0
41604	1	59.7	0	0	0
41702	2	84.8	0	0	0
41706	3	110.4	0	0	0
4204	2	83.3	0	0	0
4302	2	84.8	0	0	0
4306	3	108.7	0	0	0
4404	2	83.3	0	0	0
4502	2	84.8	0	0	0
4506	2	108.8	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)
4002	2	84.8	0	0	0
41003	2	81.7	0	0	0
4101	2	84.8	0	0	0
4105	2	88.4	0	0	0
41103	2	81.7	0	0	0
41201	2	84.8	0	0	0
41205	3	116	0	0	0
41303	2	81.7	0	0	0
41401	2	84.8	0	0	0
41405	3	116	0	0	0
41503	2	81.7	0	0	0
41601	2	84.8	0	0	0
41605	3	116	0	0	0
41703	2	81.7	0	0	0
4201	2	84.8	0	0	0
4205	2	88.5	0	0	0
4303	2	81.7	0	0	0
4401	2	84.8	0	0	0
4405	2	88.6	0	0	0
4503	2	81.7	0	0	0
4601	2	84.8	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)
4003	2	81.7	0	0	0
41004	1	59.7	0	0	0
4102	2	84.8	0	0	0
4106	3	108.6	0	0	0
41104	1	59.7	0	0	0
41202	2	84.8	0	0	0
41206	3	110.4	0	0	0
41304	1	59.7	0	0	0
41402	2	84.8	0	0	0
41406	3	110.4	0	0	0
41504	1	59.7	0	0	0
41602	2	84.8	0	0	0
41606	3	110.4	0	0	0
41704	1	59.7	0	0	0
4202	2	84.8	0	0	0
4206	3	108.6	0	0	0
4304	2	83.3	0	0	0
4402	2	84.8	0	0	0
4406	3	108.7	0	0	0
4504	2	83.3	0	0	0
4602	2	84.8	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)
41001	2	84.8	0	0	0
41005	3	116	0	0	0
4103	2	81.7	0	0	0
41101	2	84.8	0	0	0
41105	3	116	0	0	0
41203	2	81.7	0	0	0
41301	2	84.8	0	0	0
41305	3	116	0	0	0
41403	2	81.7	0	0	0
41501	2	84.8	0	0	0
41505	3	116	0	0	0
41603	2	81.7	0	0	0
41701	2	84.8	0	0	0
41705	3	116	0	0	0
4203	2	81.7	0	0	0
4301	2	84.8	0	0	0
4305	2	88.6	0	0	0
4403	2	81.7	0	0	0
4501	2	84.8	0	0	0
4505	3	88.7	0	0	0
4603	2	81.7	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
4604	2	83.3	0	0	0
4702	2	84.8	0	0	0
4706	3	108.8	0	0	0
4804	2	83.3	0	0	0
4902	2	84.8	0	0	0
4906	3	108.8	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
4605	2	88.7	0	0	0
4703	2	81.7	0	0	0
4801	2	84.8	0	0	0
4805	2	88.8	0	0	0
4903	2	81.7	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
4606	3	108.8	0	0	0
4704	2	83.3	0	0	0
4802	2	84.8	0	0	0
4806	3	108.8	0	0	0
4904	2	83.3	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
4701	2	84.8	0	0	0
4705	2	88.7	0	0	0
4803	2	81.7	0	0	0
4901	2	84.8	0	0	0
4905	2	88.8	0	0	0

Residential flat buildings - Building5, 137 dwellings, 18 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
5001	4+	163.5	0	0	0
5007	4+	152.3	0	0	0
51004	2	102.5	0	0	0
51008	2	83.5	0	0	0
5106	2	71.8	0	0	0
51103	3	102.5	0	0	0
51107	2	83.5	0	0	0
51203	3	102.5	0	0	0
51207	2	83.5	0	0	0
51303	3	102.5	0	0	0
51307	2	83.5	0	0	0
51403	3	102.5	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
5002	3	125	0	0	0
51001	2	92.4	0	0	0
51005	2	71.8	0	0	0
5101	3	102.5	0	0	0
5107	3	102.5	0	0	0
51104	2	71.8	0	0	0
51108	2	91.7	0	0	0
51204	2	71.8	0	0	0
51208	2	91.7	0	0	0
51304	2	71.8	0	0	0
51308	2	91.7	0	0	0
51404	2	71.8	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
5005	1	55.9	0	0	0
51002	2	91.8	0	0	0
51006	3	71.8	0	0	0
5102	2	71.8	0	0	0
51101	2	91.8	0	0	0
51105	2	71.8	0	0	0
51201	2	91.7	0	0	0
51205	2	71.8	0	0	0
51301	2	91.7	0	0	0
51305	2	71.8	0	0	0
51401	2	91.7	0	0	0
51405	2	71.8	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
5006	3	125	0	0	0
51003	3	83.5	0	0	0
51007	2	102.5	0	0	0
5105	1	55.9	0	0	0
51102	2	83.5	0	0	0
51106	3	102.5	0	0	0
51202	2	83.5	0	0	0
51206	3	102.5	0	0	0
51302	2	83.5	0	0	0
51306	3	102.5	0	0	0
51402	2	83.5	0	0	0
51406	3	102.5	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
51407	2	83.5	0	0	0
51503	3	102.5	0	0	0
51507	2	83.5	0	0	0
51603	3	102.5	0	0	0
51607	2	83.5	0	0	0
51703	3	102.5	0	0	0
51707	2	83.5	0	0	0
51803	3	102.5	0	0	0
51807	2	83.5	0	0	0
51904	2	71.8	0	0	0
5206	2	71.8	0	0	0
5305	1	55.9	0	0	0
5402	2	71.8	0	0	0
5501	3	102.5	0	0	0
5507	3	102.5	0	0	0
5604	2	71.8	0	0	0
5608	2	91.8	0	0	0
5704	2	71.8	0	0	0
5708	2	91.8	0	0	0
5804	2	71.8	0	0	0
5808	2	91.8	0	0	0
5904	2	71.8	0	0	0
5908	2	91.8	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
51408	2	91.7	0	0	0
51504	2	71.8	0	0	0
51508	2	91.7	0	0	0
51604	2	71.8	0	0	0
51608	2	91.7	0	0	0
51704	2	71.8	0	0	0
51708	2	91.7	0	0	0
51804	2	71.8	0	0	0
51808	2	91.7	0	0	0
5201	3	102.5	0	0	0
5207	3	102.5	0	0	0
5306	2	71.8	0	0	0
5405	1	55.9	0	0	0
5502	2	71.8	0	0	0
5601	2	91.8	0	0	0
5605	2	71.8	0	0	0
5701	2	91.8	0	0	0
5705	2	71.8	0	0	0
5801	2	91.8	0	0	0
5805	2	71.8	0	0	0
5901	2	91.8	0	0	0
5905	2	71.8	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
51501	2	91.7	0	0	0
51505	2	71.8	0	0	0
51601	2	91.7	0	0	0
51605	2	71.8	0	0	0
51701	2	91.7	0	0	0
51705	2	71.8	0	0	0
51801	2	91.7	0	0	0
51805	2	71.8	0	0	0
51902	2	83.5	0	0	0
5202	2	71.8	0	0	0
5301	3	102.5	0	0	0
5307	3	102.5	0	0	0
5406	2	71.8	0	0	0
5505	1	55.9	0	0	0
5602	2	83.5	0	0	0
5606	3	102.5	0	0	0
5702	2	83.5	0	0	0
5706	3	102.5	0	0	0
5802	2	83.5	0	0	0
5806	3	102.5	0	0	0
5902	2	83.5	0	0	0
5906	3	102.5	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
51502	2	83.5	0	0	0
51506	3	102.5	0	0	0
51602	2	83.5	0	0	0
51606	3	102.5	0	0	0
51702	2	83.5	0	0	0
51706	3	102.5	0	0	0
51802	2	83.5	0	0	0
51806	3	102.5	0	0	0
51903	3	102.5	0	0	0
5205	1	55.9	0	0	0
5302	2	71.8	0	0	0
5401	3	102.5	0	0	0
5407	3	102.5	0	0	0
5506	2	71.8	0	0	0
5603	3	102.5	0	0	0
5607	2	83.5	0	0	0
5703	3	102.5	0	0	0
5707	2	83.5	0	0	0
5803	3	102.5	0	0	0
5807	2	83.5	0	0	0
5903	3	102.5	0	0	0
5907	2	83.5	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 (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Undercover car park area	9686	Garbage rooms	251	Community space	174
Mec vent plant or service rooms	320	Nat vent plant or service rooms	210	Outdoor Communal area	248
Post room/storage/FCR	391	Ground floor lobby	166	Mec vent Hallway/lobby type	1331

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building4

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for Residential flat buildings - Building5

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

3. Commitments for multi-dwelling housing

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

4. Commitments for single dwelling houses

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

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

(a) Buildings 'Other'

(i) Materials

(b) 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 - Building4

(a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	213	-	-
floors above habitable rooms, frame: suspended concrete slab	8991	-	-
suspended floor above open subfloor, frame: suspended concrete slab	525	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (metal clad), frame: light steel frame	3956	-	-
External wall type 2	off form concrete, frame: no frame	2186	none	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	7798	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	3256	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	121	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	840	-	-

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	3633	-	3633	-	-	-	-

(b) 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.	✓	✓	✓

	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
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	5 star	5 star	-	not specified	4 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	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.	✓	✓	✓
(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;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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 with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	4 star	8.0 star	no	no

(iii) Thermal Performance	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)	Area adjusted total load (in MJ/m ² /yr)
4001	6.10	13.6	19.700
4002	22.70	10.6	33.300
4003	24.20	5.7	29.900
41001	14.20	9.5	23.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adjusted total load (in MJ/m²/yr)
41002	26.60	8.9	35.500
41003	22.90	7.8	30.700
41004	22.60	8.6	31.200
41006	18.10	15.3	33.400
4101	6.20	14.1	20.300
4102	24.00	11.6	35.600
4103	15.40	5.8	21.200
4104	11.30	6.1	17.400
4105	9.70	16.7	26.400
4106	15.60	21.1	36.700
41101	14.50	9.5	24.000
41102	26.80	8.9	35.700
41103	24.70	8	32.700
41104	22.60	9.3	31.900
41105	20.90	10.7	31.600
41106	18.00	15.2	33.200
41201	14.70	9.4	24.100
41202	26.80	9	35.800
41203	23.00	8.3	31.300
41204	21.80	9.5	31.300
41206	18.70	15.2	33.900
41301	14.70	9.3	24.000
41302	26.10	9.3	35.400
41303	22.60	8.8	31.400
41304	18.50	9.5	28.000
41305	21.00	12	33.000
41401	14.90	9.2	24.100
41402	25.40	9.2	34.600
41403	22.80	9.1	31.900
41404	18.60	10.1	28.700
41405	21.10	12.4	33.500

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
41501	15.00	9.3	24.300
41502	25.00	9.3	34.300
41503	22.60	9.7	32.300
41504	18.30	9.7	28.000
41505	20.90	12.4	33.300
41506	18.80	15.2	34.000
41601	14.90	9.4	24.300
41602	24.10	9.4	33.500
41603	21.60	10	31.600
41604	18.30	11	29.300
41605	20.80	15	35.800
41606	18.50	15.3	33.800
41701	22.70	11.4	34.100
41702	27.40	10	37.400
41703	25.50	10.5	36.000
41704	21.60	11.1	32.700
41705	20.70	11.9	32.600
41706	20.80	12.2	33.000
4201	6.80	13.8	20.600
4202	24.60	12.3	36.900
4203	16.00	6.8	22.800
4204	12.00	5.9	17.900
4205	8.80	16.6	25.400
4206	11.10	19	30.100
4301	7.40	13.4	20.800
4302	20.60	11.1	31.700
4303	16.50	7	23.500
4304	12.70	5.6	18.300
4305	9.10	15.8	24.900
4306	14.80	20.9	35.700
4401	10.20	11.1	21.300

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
4402	24.20	10.3	34.500
4403	20.60	6.4	27.000
4404	16.60	5.4	22.000
4405	12.50	13.1	25.600
4406	18.70	19	37.700
4501	10.60	10.9	21.500
4502	23.90	10.8	34.700
4503	20.40	7.3	27.700
4504	16.90	5.6	22.500
4505	12.80	12.9	25.700
4506	14.90	16.3	31.200
4601	11.20	10.8	22.000
4602	24.20	10.6	34.800
4603	20.80	6.9	27.700
4605	13.50	12.8	26.300
4606	15.40	16.1	31.500
4701	11.50	10.7	22.200
4702	24.30	10.7	35.000
4703	20.80	6.8	27.600
4705	13.70	12.6	26.300
4706	15.70	16.1	31.800
4801	11.90	10.6	22.500
4802	25.00	10.4	35.400
4803	21.60	6.9	28.500
4804	18.30	5.7	24.000
4805	14.00	12.6	26.600
4806	16.00	15.6	31.600
4901	12.10	10.7	22.800
4902	25.30	10.4	35.700
4903	21.80	6.9	28.700
4904	18.50	5.4	23.900

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
4905	14.30	12.7	27.000
4906	16.40	15.3	31.700
41005, 41205	20.80	11.1	31.900
41306, 41406	18.70	15	33.700
All other dwellings	17.60	5.6	23.200

(c) 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.	✓	✓	✓

Central energy systems	Type	Specification
Lift bank (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 17 number of levels from the bottom of the lift shaft to the top of the lift shaft: 19 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Central hot water system (No. 1)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

2. Commitments for Residential flat buildings - Building5

(a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
concrete slab on ground, frame:	290	-	none
floors above habitable rooms, frame: suspended concrete slab	11696	-	-
suspended floor above open subfloor, frame: suspended concrete slab	685	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards), frame: light steel frame	7281	-	-

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame: light steel frame	11062	-
Internal wall type 2	75 mm AAC panel, frame: light steel frame	4812	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	246	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1130	-	-

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	3789	-	3789	-	-	-	-

(b) 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.	✓	✓	✓

	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
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	5 star	5 star	-	not specified	4 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	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.	✓	✓	✓
(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;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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 with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	4 star	8.0 star	no	no

(iii) Thermal Performance	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)	Area adjusted total load (in MJ/m ² /yr)
5001	10.50	16.5	27.000
5002	2.50	7.9	10.400
5005	3.30	5.9	9.200
5006	2.70	8.4	11.100

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
5007	14.80	10.6	25.400
51001	17.30	2.9	20.200
51002	32.10	4.7	36.800
51003	14.90	6.4	21.300
51004	5.40	5.1	10.500
51005	4.40	6.2	10.600
51006	8.70	11	19.700
51007	28.40	5.5	33.900
51008	15.50	3.1	18.600
5101	7.90	7.9	15.800
5102	1.80	5	6.800
5105	3.60	5.8	9.400
5106	1.70	4.9	6.600
5107	4.70	8.8	13.500
51101	17.70	2.7	20.400
51102	32.20	5	37.200
51103	14.80	6.3	21.100
51104	5.40	4.8	10.200
51105	5.20	4.8	10.000
51106	9.30	11.7	21.000
51107	28.30	5.9	34.200
51108	15.90	3	18.900
51201	17.90	2.8	20.700
51202	32.30	5	37.300
51203	14.60	6.5	21.100
51204	5.30	4.9	10.200
51206	8.5	16	24.500
51207	28.10	6.1	34.200
51208	16.00	3	19.000
51301	18.10	2.8	20.900
51302	32.20	4.9	37.100

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
51303	14.90	6.3	21.200
51304	5.40	4.9	10.300
51306	8.90	20	28.900
51307	27.20	6.5	33.700
51308	16.20	3	19.200
51401	18.30	2.9	21.200
51402	32.30	4.8	37.100
51403	15.00	6.4	21.400
51405	5.60	4.7	10.300
51406	6	20.9	26.900
51407	24.40	7	31.400
51408	16.50	3	19.500
51501	18.50	2.9	21.400
51502	32.10	5.1	37.200
51503	15.00	6.9	21.900
51505	5.70	4.6	10.300
51506	4.30	14.7	19.000
51507	21.6	7	28.600
51508	16.70	2.9	19.600
51601	18.60	2.9	21.500
51602	31.90	5.4	37.300
51603	14.90	7.3	22.200
51604	5.70	4.8	10.500
51605	5.80	4.6	10.400
51606	3.90	16.1	20.000
51607	18.5	7.1	25.600
51608	16.7	3	19.700
51701	18.70	2.9	21.600
51702	31.20	5.6	36.800
51703	14.70	8	22.700
51704	5.80	4.8	10.600

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
51705	6.10	4.7	10.800
51706	3.50	17	20.500
51707	16.3	7	23.300
51708	16.90	3.1	20.000
51801	30.90	3.7	34.600
51802	30.80	6.2	37.000
51803	14.40	10.2	24.600
51804	5.80	4.9	10.700
51805	16.10	6.4	22.500
51806	11.1	17.8	28.900
51807	25.3	8.8	34.100
51808	29	3.9	32.900
51902	26.6	7.6	34.200
51903	18.9	14.1	33.000
51904	17.60	8.5	26.100
5201	8.70	7.6	16.300
5202	2.1	5	7.100
5205	4.20	5.8	10.000
5206	2.10	5	7.100
5207	5.60	8.7	14.300
5301	11.50	6.3	17.800
5305	6.50	5.2	11.700
5307	8	7	15.000
5401	11.80	6.5	18.300
5402	3.60	4.6	8.200
5405	7.10	5	12.100
5406	3.70	4.7	8.400
5407	8.50	7.1	15.600
5501	12.20	6.3	18.500
5502	3.90	4.9	8.800
5505	7.80	5.4	13.200

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
5507	8.80	7.2	16.000
5601	14.50	3.1	17.600
5602	29.90	5.3	35.200
5603	12.10	6.3	18.400
5605	2.70	6.5	9.200
5606	6.80	7.6	14.400
5607	30.80	5.8	36.600
5608	12.90	3.3	16.200
5701	14.60	2.9	17.500
5702	29.80	5.3	35.100
5703	12.30	6.3	18.600
5704	3.90	4.7	8.600
5705	3.20	6.6	9.800
5706	6.90	8.1	15.000
5707	30.70	5.7	36.400
5708	13.00	3.1	16.100
5801	15.10	3.1	18.200
5802	30.20	5	35.200
5803	12.70	6.4	19.100
5804	4.10	4.9	9.000
5805	3.40	6.5	9.900
5806	7.20	8.7	15.900
5807	31.10	5.9	37.000
5808	13.50	3.2	16.700
5901	17.10	2.9	20.000
5902	32.00	4.5	36.500
5903	14.50	6.3	20.800
5904	5.10	4.8	9.900
5905	4.10	6	10.100
5906	8.40	9.7	18.100
5907	28.50	5.3	33.800

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
5908	15.30	3.1	18.400
51205, 51305	5.40	4.7	10.100
51404, 51504	5.60	4.8	10.400
5302, 5306	3.40	4.6	8.000
All other dwellings	3.90	4.8	8.700

(c) 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. 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 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 bank (No. 1)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 2)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 3)	-	-	light-emitting diode	connected to lift call button	no

Central energy systems	Type	Specification
Lift bank (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 21 number of levels from the bottom of the lift shaft to the top of the lift shaft: 21 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Lift bank (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 20 number of levels from the bottom of the lift shaft to the top of the lift shaft: 20 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Central hot water system (No. 2)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

3. Commitments for multi-dwelling housing

(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.	✓	✓	✓
(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.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✓	✓	✓
(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".		✓	
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		✓	

4. Commitments for single dwelling houses

(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.	✓	✓	✓
(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.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✓	✓	✓
(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".		✓	
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		✓	

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

(a) Buildings 'Other'

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types			
Floor type	Area (m2)	Insulation	Low emissions option
concrete slab on ground, frame:	3126	-	none
suspended floor above enclosed subfloor, frame: suspended concrete slab	9297	-	-

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	off form concrete,frame:no frame	2000	none	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
-	-	-	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
-	-	-

Ceiling and roof types

Ceiling and roof type	Area (m ²)	Roof Insulation	Ceiling Insulation
-	-	-	

Glazing types**Frame types**

Single glazing (m ²)	Double glazing (m ²)	Triple glazing (m ²)	Aluminium frames (m ²)	Timber frames (m ²)	uPVC frames (m ²)	Steel frames (m ²)	Composite frames (m ²)
-	0	-	0	-	-	-	-

(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...)
Central water tank - rainwater or stormwater (No. 1)	5000	To collect run-off from at least: - 985 square metres of roof area of buildings in the development - 0 square metres of impervious area in the development - 0 square metres of garden/lawn area in the development - 0 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 5733 square metres of common landscaped area on the site - car washing in 1 car washing bays on the site
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
Undercover car park area	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	zoned switching with motion sensor	no
Garbage rooms	ventilation exhaust only	-	light-emitting diode	motion sensors	no
Community space	ventilation supply only	time clock or BMS controlled	light-emitting diode	manual on / manual off	no
Mec vent plant or service rooms	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	no
Nat vent plant or service rooms	no mechanical ventilation	-	light-emitting diode	manual on / manual off	no
Outdoor Communal area	no mechanical ventilation	-	light-emitting diode	daylight sensors	no
Post room/storage/FCR	ventilation supply only	time clock or BMS controlled	light-emitting diode	manual on / manual off	no
Ground floor lobby	ventilation supply only	time clock or BMS controlled	light-emitting diode	daylight sensors	no
Mec vent Hallway/lobby type	ventilation supply only	time clock or BMS controlled	light-emitting diode	zoned switching with motion sensor	no

Central energy systems	Type	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 15 peak kW
Other	-	-

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).

Certificate # HR-JN0LM5-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	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 6								
001	6001	1	62.3	0	29.4	8.5	6	Glazing upgrade 1
002	6002	3	146.4	0	4.6	13.1	8.3	
003	6003	3	137.1	0	1.3	6.9	9.6	
004	6004	3	115.6	0	0.7	16.7	8.4	
006	6006	3	115.6	0	0.8	17.9	8.2	
007	6007	3	137.1	0	1.2	7.4	9.6	
008	6008	3	146.4	0	4.9	8.7	8.8	
009	6009	1	62.3	0	30.8	5.1	6.3	Glazing upgrade 2
101	6101	3	114.9	0	8	13.5	7.9	
102	6102	2	78.7	0	0.7	4.1	10	
103	6103	2	79.9	0	0.6	9.5	9.3	
106	6106	2	79.9	0	0.7	11	9.1	
107	6107	2	78.7	0	0.7	4	10	
108	6108	3	114.9	0	7.7	5.5	8.9	
201	6201	3	114.9	0	8.5	13.2	7.9	
202	6202	2	78.7	0	0.9	4.1	10	
203	6203	2	79.9	0	0.7	9.4	9.3	
206	6206	2	79.9	0	0.8	10.8	9.1	
207	6207	2	78.7	0	0.8	4.1	10	
208	6208	3	114.9	0	8.2	5.4	8.8	
301	6301	3	114.9	0	10.4	11.1	7.9	
302	6302	2	78.7	0	1.8	4	10	
303	6303	2	79.9	0	1.3	8.4	9.4	
306	6306	2	79.9	0	1.5	9.5	9.2	
307	6307	2	78.7	0	1.6	3.9	10	
308	6308	3	114.9	0	9.8	4.5	8.7	
401	6401	3	114.9	0	10.7	11.1	7.9	
402	6402	2	78.7	0	2	3.9	10	
403	6403	2	79.9	0	1.4	8.3	9.4	
406	6406	2	79.9	0	1.6	9.3	9.2	
407	6407	2	78.7	0	1.7	4	10	
408	6408	3	114.9	0	10.2	4.5	8.7	
501	6501	3	114.9	0	10.9	11	7.9	
502	6502	2	78.7	0	2.1	4	9.9	

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Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
503	6503	2	79.9	0	1.9	9.2	9.1	
506	6506	2	79.9	0	2.2	10.7	8.9	
507	6507	2	78.7	0	1.9	4	10	
508	6508	3	114.9	0	10.4	4.4	8.7	
601	6601	2	86.7	0	23.6	5.2	7.1	
602	6602	3	114.9	0	5.9	10	8.5	
603	6603	1	56.1	0	1.9	4.4	9.9	
604	6604	2	80.3	0	5.4	5.5	9.2	
605	6605	2	83.9	0	33	4	6.1	
606	6606	2	83.9	0	32.7	4	6.2	
607	6607	2	80.3	0	5.4	4.6	9.3	
608	6608	1	56	0	1.7	4.4	9.9	
609	6609	3	114.9	0	4.3	8.2	8.9	
610	6610	2	86.7	0	28.7	3.5	6.7	
701	6701	2	86.7	0	19.1	10.4	7	
702	6702	3	114.9	0	5.8	10.2	8.4	
703	6703	1	56.1	0	2	4.5	9.9	
704	6704	2	80.3	0	5.5	5.5	9.2	
705	6705	2	83.9	0	31.5	4.9	6.2	
706	6706	2	83.9	0	30.8	4.7	6.3	
707	6707	2	80.3	0	2.9	7.7	9.2	
708	6708	1	56	0	1	7.9	9.5	
709	6709	3	114.9	0	4.4	7.9	8.9	
710	6710	2	86.7	0	26.6	5.2	6.8	
801	6801	2	86.7	0	21.4	8.2	7	
802	6802	3	114.9	0	6.1	10.2	8.4	
803	6803	1	56.1	0	2.2	6.5	9.6	
804	6804	2	80.3	0	5.8	5.4	9.1	
805	6805	2	83.9	0	32.1	4.9	6.1	
806	6806	2	83.9	0	31.3	4.7	6.2	
807	6807	2	80.3	0	5.8	4.6	9.3	
808	6808	1	56	0	2	4.4	9.9	
809	6809	3	114.9	0	4.1	7.6	9.1	
810	6810	2	86.7	0	27.1	5.3	6.7	
901	6901	2	86.7	0	23.6	7.2	6.9	

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
902	6902	3	114.9	0	7.3	9.7	8.4	
903	6903	1	56.1	0	3	4.3	9.8	
904	6904	2	80.3	0	6.9	5.2	8.9	
905	6905	2	83.9	0	29	3.9	6.6	Glazing upgrade 1
906	6906	2	83.9	0	28.3	3.8	6.7	Glazing upgrade 1
907	6907	2	80.3	0	6.9	4.4	9.1	
908	6908	1	56	0	2.6	4.2	9.9	
909	6909	3	114.9	0	4.6	6.3	9.2	
910	6910	2	86.7	0	29.4	5	6.4	
1001	61001	2	86.7	0	23.8	7.2	6.9	
1002	61002	3	114.9	0	7.4	9.7	8.4	
1003	61003	1	56.1	0	3	4.4	9.8	
1004	61004	2	80.3	0	7	5.2	8.9	
1005	61005	2	83.9	0	29.2	3.9	6.6	Glazing upgrade 1
1006	61006	2	83.9	0	28.4	3.9	6.7	Glazing upgrade 1
1007	61007	2	80.3	0	7	4.4	9.1	
1008	61008	1	56	0	2.6	4.3	9.9	
1009	61009	3	114.9	0	4.7	6.5	9.1	
1010	61010	2	86.7	0	29.6	5	6.4	
1101	61101	2	86.7	0	24.2	7.3	6.8	
1102	61102	3	114.9	0	7.7	9.5	8.4	
1103	61103	1	56.1	0	3	4.5	9.7	
1104	61104	2	80.3	0	7.3	5.2	8.9	
1105	61105	2	83.9	0	29.5	3.9	6.6	Glazing upgrade 1
1106	61106	2	83.9	0	28.7	3.9	6.7	Glazing upgrade 1
1107	61107	2	80.3	0	7.3	4.5	9	
1108	61108	1	56	0	2.7	4.4	9.8	
1109	61109	3	114.9	0	4.9	6.3	9.1	
1110	61110	2	86.7	0	29.9	5	6.4	
1201	61201	2	86.7	0	25.7	6.8	6.7	
1202	61202	3	114.9	0	8	9.6	8.3	
1203	61203	1	56.1	0	2.8	4.6	9.8	
1204	61204	2	80.3	0	7.3	5.2	8.9	
1205	61205	2	83.9	0	29.6	4	6.5	Glazing upgrade 1
1206	61206	2	83.9	0	28.8	3.8	6.7	Glazing upgrade 1

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1207	61207	2	80.3	0	7.3	4.5	9	
1208	61208	1	56	0	2.6	4.4	9.8	
1209	61209	3	114.9	0	4.9	6.7	9.1	
1210	61210	2	86.7	0	29.9	5.3	6.3	
1301	61301	2	86.7	0	25.8	6.7	6.7	
1302	61302	3	114.9	0	8	9.9	8.3	
1303	61303	1	56.1	0	2.7	4.6	9.8	
1304	61304	2	80.3	0	7.4	5	8.9	
1305	61305	2	83.9	0	29.8	4	6.5	Glazing upgrade 1
1306	61306	2	83.9	0	28.9	3.8	6.7	Glazing upgrade 1
1307	61307	2	80.3	0	7.4	4.4	9	
1308	61308	1	56	0	2.6	4.6	9.8	
1309	61309	3	114.9	0	5	6.8	9	
1310	61310	2	86.7	0	30	5.3	6.3	
1401	61401	2	86.7	0	26	6.6	6.7	
1402	61402	3	114.9	0	8.1	9.9	8.3	
1403	61403	1	56.1	0	2.7	4.3	9.8	
1404	61404	2	80.3	0	7.6	5	8.9	
1405	61405	2	83.9	0	30	4	6.4	Glazing upgrade 1
1406	61406	2	83.9	0	29.2	3.7	6.6	Glazing upgrade 1
1407	61407	2	80.3	0	7.6	4.4	9	
1408	61408	1	56	0	2.6	4.6	9.8	
1409	61409	3	114.9	0	5	7.1	8.9	
1410	61410	2	86.7	0	30.1	5.4	6.3	
1501	61501	2	86.7	0	26.1	6.6	6.7	
1502	61502	3	114.9	0	8.1	9.9	8.3	
1503	61503	1	56.1	0	2.9	4.7	9.7	
1504	61504	2	80.3	0	7.7	5	8.9	
1505	61505	2	83.9	0	30.1	4.1	6.4	Glazing upgrade 1
1506	61506	2	83.9	0	29.3	3.7	6.6	Glazing upgrade 1
1507	61507	2	80.3	0	7.7	4.3	9	
1508	61508	1	56	0	2.8	4.6	9.8	
1509	61509	3	114.9	0	5	7.7	8.9	
1510	61510	2	86.7	0	29.5	5.6	6.4	
1601	61601	2	86.7	0	26.1	6.6	6.7	

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1602	61602	3	114.9	0	8.2	9.7	8.3	
1603	61603	1	56.1	0	2.9	4.5	9.8	
1604	61604	2	80.3	0	7.8	5	8.9	
1605	61605	2	83.9	0	30.2	4.2	6.4	Glazing upgrade 1
1606	61606	2	83.9	0	29.4	3.7	6.6	Glazing upgrade 1
1607	61607	2	80.3	0	7.7	4.3	8.9	
1608	61608	1	56	0	2.8	4.5	9.8	
1609	61609	3	114.9	0	5	9.3	8.7	
1610	61610	2	86.7	0	28.5	5.7	6.4	
1701	61701	2	86.7	0	26.1	6.7	6.7	
1702	61702	3	114.9	0	8.3	9.8	8.3	
1703	61703	1	56.1	0	2.9	4.5	9.8	
1704	61704	2	80.3	0	7.9	5	8.9	
1705	61705	2	83.9	0	30.3	4.1	6.4	Glazing upgrade 1
1706	61706	2	83.9	0	29.5	3.9	6.6	Glazing upgrade 1
1707	61707	2	80.3	0	7.8	4.3	8.9	
1708	61708	1	56	0	2.8	4.4	9.8	
1709	61709	3	114.9	0	4.7	10.6	8.6	
1710	61710	2	86.7	0	26.5	5.8	6.7	
1801	61801	2	86.7	0	26	6.8	6.7	
1802	61802	3	114.9	0	8.4	9.8	8.3	
1803	61803	1	56.1	0	3	4.7	9.7	
1804	61804	2	80.3	0	7.9	5.1	8.9	
1805	61805	2	83.9	0	30.3	4.2	6.4	Glazing upgrade 1
1806	61806	2	83.9	0	29.3	3.9	6.6	Glazing upgrade 1
1807	61807	2	80.3	0	7.9	4.5	8.9	
1808	61808	1	56	0	2.7	4.6	9.8	
1809	61809	3	114.9	0	4.4	11.7	8.4	
1810	61810	2	86.7	0	22.7	5.9	7.1	
1901	61901	2	86.7	0	25.9	7	6.6	
1902	61902	3	114.9	0	9.9	10.1	8.1	
1903	61903	1	56.1	0	3.1	4.8	9.7	
1904	61904	2	80.3	0	8	5.3	8.8	
1905	61905	2	83.9	0	29.6	4.4	6.4	Glazing upgrade 1
1906	61906	2	83.9	0	28.6	4.3	6.6	Glazing upgrade 1

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1907	61907	2	80.3	0	7.9	4.2	8.9	
1908	61908	1	56	0	3.1	4.5	9.7	
1909	61909	3	114.9	0	4.6	13	8.3	
1910	61910	2	86.7	0	18.8	6.1	7.5	
2001	62001	3	123.5	0	27.4	9.1	6.2	Glazing upgrade 2
2002	62002	3	125.2	0	18.2	5.9	7.6	
2003	62003	2	80.3	0	17.7	7.4	7.4	
2004	62004	2	83.9	0	29.6	8	6.1	Glazing upgrade 2 R2.5 external wall insulation
2006	62006	2	83.9	0	27.4	4.8	6.7	Glazing upgrade 1
2007	62007	2	80.3	0	7.7	4.4	8.9	
2008	62008	3	125.2	0	18.5	6.3	7.5	
2009	62009	3	123.5	0	28.7	8.5	6.1	
2106	62106	2	83.9	0	16.6	8.6	7.4	Glazing upgrade 2
2107	62107	2	80.3	0	15.9	6.5	7.8	
2108	62108	3	125.2	0	28.2	8.6	6.2	
2109	62109	3	123.5	0	28.2	8.6	6.2	
Building 7								
001	7001	2	87.3	0	0	9.4	8.2	
002	7002	2	92.7	0	15.9	12	7.2	
003	7003	2	84.1	0	5.7	15.6	7.9	
004	7004	3	114.1	0	12.4	15.3	7.2	
005	7005	3	122.2	0	13.1	18.9	6.7	
006	7006	3	119.7	0	18.3	7.3	7.4	
101	7101	2	87.3	0	9.2	9.4	8.2	
102	7102	2	92.7	0	16.1	13.2	7.1	
103	7103	2	84.5	0	6.5	16.9	7.7	
104	7104	1	54.3	0	6.6	17.9	7.6	
105	7105	2	84.1	0	6.6	17.6	7.6	
106	7106	2	95.7	0	6.3	20	7.4	
107	7107	3	119.7	0	12.8	9	7.9	
201	7201	2	87.3	0	9.3	9.2	8.2	
202	7202	2	92.7	0	18.1	11.6	7	
203	7203	2	84.5	0	6.5	16.6	7.7	
204	7204	1	54.3	0	7	17.2	7.6	

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
205	7205	2	84	0	7	17	7.6	
206	7206	2	95.7	0	5.7	21.1	7.3	
207	7207	3	119.7	0	11.8	9.7	7.9	
301	7301	2	87.3	0	9.8	8.6	8.3	
302	7302	2	92.7	0	19.7	10.6	6.9	
303	7303	2	84.5	0	7.8	14.5	7.8	
304	7304	1	54.3	0	8.1	15.8	7.6	
305	7305	2	84	0	8.3	14.2	7.8	
306	7306	2	95.7	0	7.2	18.7	7.4	
307	7307	3	119.7	0	13	11	7.6	
401	7401	2	87.3	0	12.7	8.3	7.9	
402	7402	2	92.7	0	24.2	8.7	6.6	
403	7403	2	84.5	0	10.5	10.5	8	
404	7404	1	54.3	0	10.8	11	7.9	
405	7405	2	84	0	12	15.7	7.2	
406	7406	2	95.7	0	9.3	16.3	7.4	
407	7407	3	119.7	0	9.9	13.7	7.7	
501	7501	2	87.3	0	13.4	7.3	8	
502	7502	2	92.7	0	23.5	9.2	6.7	
503	7503	2	84.5	0	11.5	9.7	7.9	
504	7504	1	54.3	0	11.8	10.6	7.8	
505	7505	2	84	0	11.9	10.2	7.9	
506	7506	2	95.7	0	10.2	15.2	7.4	
507	7507	3	119.7	0	9.4	17.7	7.3	
601	7601	2	87.3	0	13.4	7.9	7.9	
602	7602	2	92.7	0	23.3	9.7	6.6	
603	7603	2	84.5	0	11.4	10.1	7.9	
604	7604	1	54.3	0	11.9	10.7	7.8	
605	7605	2	84	0	11.7	10.4	7.9	
606	7606	2	95.7	0	10.2	16.3	7.4	
607	7607	3	119.7	0	5.1	20.7	7.4	Glazing upgrade 1
701	7701	2	87.3	0	14	7.6	7.9	
702	7702	2	92.7	0	24.6	9.2	6.5	
703	7703	2	84.5	0	12.2	9.5	7.9	
704	7704	1	54.3	0	12.7	10.3	7.8	

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Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
705	7705	2	84	0	12.6	9.5	7.9	
706	7706	2	95.7	0	11	15.2	7.4	
707	7707	3	119.7	0	4	20.4	7.6	Glazing upgrade 1
801	7801	2	87.3	0	13.7	7.7	7.9	
802	7802	2	92.7	0	24.2	9.5	6.5	
803	7803	2	84.5	0	11.9	9.8	7.9	
804	7804	1	54.3	0	12.5	10.4	7.8	
805	7805	2	84	0	10.1	12.8	7.8	
806	7806	2	95.7	0	10.8	16.1	7.3	
807	7807	3	119.7	0	3.7	21.4	7.4	Glazing upgrade 1
901	7901	2	87.3	0	15	7.5	7.8	
902	7902	2	92.7	0	25.4	9.1	6.4	
903	7903	2	84.5	0	12.4	9.6	7.9	
904	7904	1	54.3	0	13.4	10.3	7.7	
905	7905	2	84	0	14.5	7.8	7.8	
906	7906	2	95.7	0	11.6	14.9	7.4	
907	7907	3	119.7	0	4.3	20.5	7.5	Glazing upgrade 1
1001	71001	2	87.3	0	14.7	7.4	7.9	
1002	71002	2	92.7	0	27.4	8.5	6.3	
1003	71003	2	84.5	0	12.7	9.7	7.8	
1004	71004	1	54.3	0	13.3	10.1	7.7	
1005	71005	2	84	0	12.7	9.3	7.9	
1006	71006	2	95.7	0	11.2	16	7.3	
1007	71007	3	119.7	0	4.1	21.4	7.4	Glazing upgrade 1
1101	71101	2	87.3	0	17.4	7.4	7.5	
1102	71102	2	92.7	0	28.5	8.6	6.1	
1103	71103	2	84.5	0	13.6	8.6	7.8	
1104	71104	1	54.3	0	15.7	9.5	7.4	
1105	71105	2	84	0	14.7	7.8	7.8	
1106	71106	2	95.7	0	13.9	13.6	7.3	
1107	71107	3	119.7	0	5.6	18.8	7.6	Glazing upgrade 1
1201	71201	2	87.3	0	16.6	7.7	7.6	
1202	71202	2	92.7	0	24.4	7.3	6.8	Glazing upgrade 1
1203	71203	2	84.5	0	14.6	8.3	7.8	
1204	71204	1	54.3	0	15.4	9.8	7.4	

Certificate # HR-JN0LM5-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1205	71205	2	84	0	13.8	8.3	7.9	
1206	71206	2	95.7	0	13.1	14.5	7.2	
1207	71207	3	119.7	0	5.1	19.6	7.5	Glazing upgrade 1
1301	71301	2	87.3	0	17.8	7.2	7.5	
1302	71302	2	92.7	0	25.6	7.4	6.6	Glazing upgrade 1
1303	71303	2	84.5	0	16.2	7.7	7.6	
1304	71304	1	54.3	0	16.6	9.3	7.4	
1305	71305	2	84	0	15	7.9	7.8	
1306	71306	2	95.7	0	14.2	13.5	7.2	
1307	71307	3	119.7	0	5.5	18.4	7.6	Glazing upgrade 1
1401	71401	2	87.3	0	16.9	7.4	7.6	
1402	71402	2	92.7	0	28.6	9.1	6	
1403	71403	2	84.5	0	15	8.3	7.7	
1404	71404	1	54.3	0	15.9	10	7.4	
1405	71405	2	84	0	14.4	8.6	7.8	
1406	71406	2	95.7	0	13.4	14.3	7.2	
1407	71407	3	119.7	0	5.2	20	7.4	Glazing upgrade 1
1501	71501	2	87.3	0	17.7	7.2	7.5	
1502	71502	2	92.7	0	29.1	8.7	6	
1503	71503	2	84.5	0	15.5	8	7.7	
1504	71504	1	54.3	0	16.5	9.8	7.4	
1505	71505	2	84	0	14.7	8.1	7.8	
1506	71506	2	95.7	0	14.3	13.6	7.2	
1507	71507	3	119.7	0	8.3	21.3	7	Glazing upgrade 1
1601	71601	2	87.3	0	14	9.1	7.7	
1602	71602	2	92.7	0	27.6	10.1	6	
1603	71603	2	84.5	0	14.8	8.3	7.7	
1604	71604	1	54.3	0	16	10.2	7.4	
1605	71605	2	84	0	14.2	8.4	7.8	
1606	71606	2	95.7	0	11.5	15.6	7.3	
1607	71607	3	119.7	0	4.6	20.2	7.5	Glazing upgrade 1
1701	71701	2	87.3	0	19.2	9.8	7.1	
1702	71702	2	92.7	0	28.5	9.4	6	Glazing upgrade 1
1703	71703	2	84.5	0	20.9	9.7	6.9	
1704	71704	1	54.3	0	24	9.1	6.6	

Certificate # HR-JN0LM5-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number as per Architectural drawings	Unit Number as per Certificate	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1705	71705	2	84	0	19	10.6	7	
1706	71706	2	95.7	0	20.1	16.8	6.1	
1707	71707	3	119.7	0	8.7	20.8	7.1	Glazing upgrade 1
1801	71801	2	87.3	0	19.1	6.9	7.4	
1802	71802	2	92.7	0	25.9	7.4	6.6	Glazing upgrade 1
1803	71803	2	84.1	0	16.1	8.1	7.6	
1804	71804	1	114.1	0	19.3	8.1	7.3	
1805	71805	2	122.2	0	15.9	12.5	7.2	
1806	71806	2	119.7	0	8.3	19.1	7.3	
1901	71901	3	87.3	0	19.9	6.8	7.3	
1902	71902	2	92.7	0	24.4	7.3	6.8	Glazing upgrade 1
1903	71903	2	84.1	0	12.1	8.1	8.1	
1904	71904	2	114.1	0	19.9	7.6	7.2	
1905	71905	1	122.2	0	16.5	11.6	7.2	
1906	71906	2	119.7	0	8.7	18	7.3	
2001	72001	2	87.3	0	18.7	7.1	7.4	
2002	72002	3	92.7	0	23.7	7.4	6.9	Glazing upgrade 1
2003	72003	2	84.1	0	11.8	8.7	8.1	
2004	72004	2	114.1	0	19.4	7.9	7.3	
2005	72005	2	122.2	0	15.7	12.4	7.2	
2006	72006	3	119.7	0	8.4	19	7.3	
2101	72101	3	87.3	0	27.4	8.7	6.2	
2102	72102	3	92.7	0	27.4	9	6.2	Glazing upgrade 2 R4.0 ceiling insulation R2.5 external wall insulation
2103	72103	2	84.1	0	22.6	10.7	6.6	
2104	72104	2	114.1	0	26.3	9.3	6.3	Glazing upgrade 1
2105	72105	2	122.2	0	24.4	12.5	6.1	Glazing upgrade 1
2106	72106	3	119.7	0	14.8	18.6	6.6	Glazing upgrade 1

Nationwide House Energy Rating Scheme® Class 2 Summary

NatHERS® Certificate No. #HR-JN0LM5-01

Generated on 05 Nov 2024 using Hero 4.1

Property

Address 1 Crescent Street, Holroyd, NSW, 2142
Lot/DP 700/-/DP1241836
NatHERS climate zone 56 - Mascot AMO



Accredited assessor

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Accreditation No. 10213
Assessor Accrediting Organisation HERA

Verification

To verify this certificate, scan the QR code or visit <http://www.hero-software.com.au/pdf/HR-JN0LM5-01>.
When using either link, ensure you are visiting <http://www.hero-software.com.au>



National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-PBZFA3-01	6001	29.4 (34)	8.5 (21)	37.9	6.0	n/a
HR-C6BNVG-01	6002	4.6 (34)	13.1 (21)	17.7	8.3	n/a
HR-EMHRD8-01	6003	1.3 (34)	6.9 (21)	8.2	9.6	n/a

Thermal performance Star rating



NCC heating and cooling maximum loads MJ/m².yr

Limits taken from ABCB Standard 2022

	Heating	Cooling
Average load	13.6	8.7
Maximum load	33.0	21.4
Average limit	28.1	20.0
Maximum limit	34.4	21.4

Whole of Home performance rating

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

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-EN4BC5-01	6004	0.7 (34)	16.7 (21)	17.4	8.4	n/a
HR-YSB64J-01	6006	0.8 (34)	17.9 (21)	18.7	8.2	n/a
HR-C694BR-01	6007	1.2 (34)	7.4 (21)	8.6	9.6	n/a
HR-JHRIFH-01	6008	4.9 (34)	8.7 (21)	13.6	8.8	n/a
HR-55PEL1-01	6009	30.8 (34)	5.1 (21)	35.9	6.3	n/a
HR-B01WMV-01	61001	23.8 (34)	7.2 (21)	30.9	6.9	n/a
HR-IRK1BS-01	61002	7.4 (34)	9.7 (21)	17.1	8.4	n/a
HR-KY9C0X-01	61003	3.0 (34)	4.4 (21)	7.4	9.8	n/a
HR-5B86BQ-01	61004	7.0 (34)	5.2 (21)	12.2	8.9	n/a
HR-417BVQ-01	61005	29.2 (34)	3.9 (21)	33.1	6.6	n/a
HR-LFVPN4-01	61006	28.4 (34)	3.9 (21)	32.4	6.7	n/a
HR-OPPTHX-01	61007	7.0 (34)	4.4 (21)	11.3	9.1	n/a
HR-Q9LW27-01	61008	2.6 (34)	4.3 (21)	6.9	9.9	n/a
HR-55COCO-01	61009	4.7 (34)	6.5 (21)	11.2	9.1	n/a
HR-F87YWC-01	6101	8.0 (34)	13.5 (21)	21.5	7.9	n/a
HR-XH50UW-01	61010	29.6 (34)	5.0 (21)	34.5	6.4	n/a
HR-RZSFX9-01	6102	0.7 (34)	4.1 (21)	4.8	10.0	n/a
HR-FSFGSX-01	6103	0.6 (34)	9.5 (21)	10.1	9.3	n/a
HR-ZI53OL-01	6106	0.7 (34)	11.0 (21)	11.6	9.1	n/a
HR-H309HQ-01	6107	0.7 (34)	4.0 (21)	4.7	10.0	n/a
HR-JR5P41-01	6108	7.7 (34)	5.5 (21)	13.2	8.9	n/a
HR-0SN5OD-01	61101	24.2 (34)	7.3 (21)	31.4	6.8	n/a
HR-EV5AJ1-01	61102	7.7 (34)	9.5 (21)	17.2	8.4	n/a
HR-DAQIRF-01	61103	3.0 (34)	4.5 (21)	7.6	9.7	n/a
HR-4V67EX-01	61104	7.3 (34)	5.2 (21)	12.5	8.9	n/a
HR-D4QT1I-01	61105	29.5 (34)	3.9 (21)	33.5	6.6	n/a
HR-PWHIJ1-01	61106	28.7 (34)	3.9 (21)	32.7	6.7	n/a
HR-KC58E2-01	61107	7.3 (34)	4.5 (21)	11.7	9.0	n/a
HR-ZE6TLS-01	61108	2.7 (34)	4.4 (21)	7.0	9.8	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-6T4JM8-01	61109	4.9 (34)	6.3 (21)	11.2	9.1	n/a
HR-LT5SDQ-01	61110	29.9 (34)	5.0 (21)	34.9	6.4	n/a
HR-LF8IC0-01	61201	25.7 (34)	6.8 (21)	32.5	6.7	n/a
HR-GSAOE2-01	61202	8.0 (34)	9.6 (21)	17.6	8.3	n/a
HR-HVZTU4-01	61203	2.8 (34)	4.6 (21)	7.4	9.8	n/a
HR-HRWU1Y-01	61204	7.3 (34)	5.2 (21)	12.5	8.9	n/a
HR-2AVVZX-01	61205	29.6 (34)	4.0 (21)	33.7	6.5	n/a
HR-SR9OM8-01	61206	28.8 (34)	3.8 (21)	32.6	6.7	n/a
HR-Q5OYRO-01	61207	7.3 (34)	4.5 (21)	11.7	9.0	n/a
HR-0FX0J1-01	61208	2.6 (34)	4.4 (21)	7.0	9.8	n/a
HR-PY8XFR-01	61209	4.9 (34)	6.7 (21)	11.6	9.1	n/a
HR-JPHA5O-01	61210	29.9 (34)	5.3 (21)	35.2	6.3	n/a
HR-47TAS4-01	61301	25.8 (34)	6.7 (21)	32.4	6.7	n/a
HR-E09SFG-01	61302	8.0 (34)	9.9 (21)	17.9	8.3	n/a
HR-FQJPV4-01	61303	2.7 (34)	4.6 (21)	7.3	9.8	n/a
HR-UTA1X1-01	61304	7.4 (34)	5.0 (21)	12.4	8.9	n/a
HR-FF1LX3-01	61305	29.8 (34)	4.0 (21)	33.8	6.5	n/a
HR-QOEWPM-01	61306	28.9 (34)	3.8 (21)	32.7	6.7	n/a
HR-1ME2FB-01	61307	7.4 (34)	4.4 (21)	11.8	9.0	n/a
HR-ZDGAQ2-01	61308	2.6 (34)	4.6 (21)	7.2	9.8	n/a
HR-J82ZGA-01	61309	5.0 (34)	6.8 (21)	11.8	9.0	n/a
HR-1N70CM-01	61310	30.0 (34)	5.3 (21)	35.3	6.3	n/a
HR-CP80O3-01	61401	26.0 (34)	6.6 (21)	32.5	6.7	n/a
HR-A6APJ5-01	61402	8.1 (34)	9.9 (21)	18.0	8.3	n/a
HR-DB9JWT-01	61403	2.7 (34)	4.3 (21)	7.0	9.8	n/a
HR-IW10G8-01	61404	7.6 (34)	5.0 (21)	12.6	8.9	n/a
HR-0OVPJJ-01	61405	30.0 (34)	4.0 (21)	34.0	6.4	n/a
HR-3BL32X-01	61406	29.2 (34)	3.7 (21)	32.9	6.6	n/a
HR-HCCYKJ-01	61407	7.6 (34)	4.4 (21)	11.9	9.0	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-G6BMFY-01	61408	2.6 (34)	4.6 (21)	7.2	9.8	n/a
HR-V2LW3W-01	61409	5.0 (34)	7.1 (21)	12.1	8.9	n/a
HR-FGTL6H-01	61410	30.1 (34)	5.4 (21)	35.5	6.3	n/a
HR-TOQQF9-01	61501	26.1 (34)	6.6 (21)	32.7	6.7	n/a
HR-WD0YY2-01	61502	8.1 (34)	9.9 (21)	18.0	8.3	n/a
HR-TSV5RI-01	61503	2.9 (34)	4.7 (21)	7.6	9.7	n/a
HR-I4KX3W-01	61504	7.7 (34)	5.0 (21)	12.7	8.9	n/a
HR-0PG6FL-01	61505	30.1 (34)	4.1 (21)	34.2	6.4	n/a
HR-II44O9-01	61506	29.3 (34)	3.7 (21)	33.1	6.6	n/a
HR-TB6HVL-01	61507	7.7 (34)	4.3 (21)	12.0	9.0	n/a
HR-2B4QNA-01	61508	2.8 (34)	4.6 (21)	7.4	9.8	n/a
HR-NE9F92-01	61509	5.0 (34)	7.7 (21)	12.7	8.9	n/a
HR-U8KS27-01	61510	29.5 (34)	5.6 (21)	35.1	6.4	n/a
HR-K0NSMD-01	61601	26.1 (34)	6.6 (21)	32.7	6.7	n/a
HR-54VME8-01	61602	8.2 (34)	9.7 (21)	17.9	8.3	n/a
HR-1ESMEJ-01	61603	2.9 (34)	4.5 (21)	7.4	9.8	n/a
HR-7GJSWN-01	61604	7.8 (34)	5.0 (21)	12.7	8.9	n/a
HR-QXVZBP-01	61605	30.2 (34)	4.2 (21)	34.4	6.4	n/a
HR-ZW2XTX-01	61606	29.4 (34)	3.7 (21)	33.2	6.6	n/a
HR-0S7H9C-01	61607	7.7 (34)	4.3 (21)	12.0	8.9	n/a
HR-HK4J2D-01	61608	2.8 (34)	4.5 (21)	7.3	9.8	n/a
HR-UGSRLY-01	61609	5.0 (34)	9.3 (21)	14.3	8.7	n/a
HR-3VA5U5-01	61610	28.5 (34)	5.7 (21)	34.2	6.4	n/a
HR-RO5STN-01	61701	26.1 (34)	6.7 (21)	32.7	6.7	n/a
HR-B3RC6U-01	61702	8.3 (34)	9.8 (21)	18.1	8.3	n/a
HR-N9KHH5-01	61703	2.9 (34)	4.5 (21)	7.5	9.8	n/a
HR-QSXRPK-01	61704	7.9 (34)	5.0 (21)	12.9	8.9	n/a
HR-H6KAWZ-01	61705	30.3 (34)	4.1 (21)	34.4	6.4	n/a
HR-Q2EM1A-01	61706	29.5 (34)	3.9 (21)	33.4	6.6	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-0YEXD0-01	61707	7.8 (34)	4.3 (21)	12.1	8.9	n/a
HR-1QD7CJ-01	61708	2.8 (34)	4.4 (21)	7.2	9.8	n/a
HR-T9RWP8-01	61709	4.7 (34)	10.6 (21)	15.3	8.6	n/a
HR-COWGKH-01	61710	26.5 (34)	5.8 (21)	32.3	6.7	n/a
HR-D2VO3R-01	61801	26.0 (34)	6.8 (21)	32.7	6.7	n/a
HR-BVJIOW-01	61802	8.4 (34)	9.8 (21)	18.2	8.3	n/a
HR-PZ4NAP-01	61803	3.0 (34)	4.7 (21)	7.6	9.7	n/a
HR-4DH16G-01	61804	7.9 (34)	5.1 (21)	13.1	8.9	n/a
HR-MSDO76-01	61805	30.3 (34)	4.2 (21)	34.5	6.4	n/a
HR-BEVB07-01	61806	29.3 (34)	3.9 (21)	33.3	6.6	n/a
HR-XT3J3C-01	61807	7.9 (34)	4.5 (21)	12.4	8.9	n/a
HR-3LWRJW-01	61808	2.7 (34)	4.6 (21)	7.3	9.8	n/a
HR-ZPW5VK-01	61809	4.4 (34)	11.7 (21)	16.1	8.4	n/a
HR-F3R88D-01	61810	22.7 (34)	5.9 (21)	28.6	7.1	n/a
HR-TK80AS-01	61901	25.9 (34)	7.0 (21)	32.8	6.6	n/a
HR-JXQN24-01	61902	9.9 (34)	10.1 (21)	20.0	8.1	n/a
HR-O947EP-01	61903	3.1 (34)	4.8 (21)	7.9	9.7	n/a
HR-J40QYE-01	61904	8.0 (34)	5.3 (21)	13.2	8.8	n/a
HR-02YDG6-01	61905	29.6 (34)	4.4 (21)	34.1	6.4	n/a
HR-9MJB1H-01	61906	28.6 (34)	4.3 (21)	32.9	6.6	n/a
HR-8910TT-01	61907	7.9 (34)	4.2 (21)	12.1	8.9	n/a
HR-EQ5U3D-01	61908	3.1 (34)	4.5 (21)	7.6	9.7	n/a
HR-64EUMP-01	61909	4.6 (34)	13.0 (21)	17.6	8.3	n/a
HR-IFO85A-01	61910	18.8 (34)	6.1 (21)	24.9	7.5	n/a
HR-9SCPG7-01	62001	27.4 (34)	9.1 (21)	36.5	6.2	n/a
HR-SPJTYV-01	62002	18.2 (34)	5.9 (21)	24.1	7.6	n/a
HR-EE4LXL-01	62003	16.5 (34)	7.7 (21)	24.1	7.6	n/a
HR-O41FJ5-01	62004	29.6 (34)	8.0 (21)	37.6	6.1	n/a
HR-1SMZTW-01	62006	27.4 (34)	4.8 (21)	32.2	6.7	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-ZCO1NI-01	62007	7.7 (34)	4.4 (21)	12.1	8.9	n/a
HR-BPNAC7-01	62008	5.8 (34)	4.3 (21)	10.0	9.3	n/a
HR-FH3U5I-01	62009	18.5 (34)	6.3 (21)	24.9	7.5	n/a
HR-QKTN2P-01	6201	8.5 (34)	13.2 (21)	21.7	7.9	n/a
HR-ININ7L-01	6202	0.9 (34)	4.1 (21)	5.1	10.0	n/a
HR-RZBBMK-01	6203	0.7 (34)	9.4 (21)	10.1	9.3	n/a
HR-RDDMV1-01	6206	0.8 (34)	10.8 (21)	11.6	9.1	n/a
HR-6W4IXJ-01	6207	0.8 (34)	4.1 (21)	4.9	10.0	n/a
HR-QJFE1T-01	6208	8.2 (34)	5.4 (21)	13.6	8.8	n/a
HR-RA6LR9-01	62106	28.7 (34)	8.5 (21)	37.2	6.1	n/a
HR-HB0KZQ-01	62107	16.6 (34)	8.6 (21)	25.2	7.4	n/a
HR-8Z0ZVQ-01	62108	15.9 (34)	6.5 (21)	22.4	7.8	n/a
HR-7VLYFX-01	62109	28.2 (34)	8.6 (21)	36.8	6.2	n/a
HR-5H2TWC-01	6301	10.4 (34)	11.1 (21)	21.5	7.9	n/a
HR-IULCAX-01	6302	1.8 (34)	4.0 (21)	5.8	10.0	n/a
HR-S8MA62-01	6303	1.3 (34)	8.4 (21)	9.8	9.4	n/a
HR-NSUPRR-01	6306	1.5 (34)	9.5 (21)	10.9	9.2	n/a
HR-94XNEB-01	6307	1.6 (34)	3.9 (21)	5.5	10.0	n/a
HR-V96ODS-01	6308	9.8 (34)	4.5 (21)	14.3	8.7	n/a
HR-YAPG7D-01	6401	10.7 (34)	11.1 (21)	21.8	7.9	n/a
HR-XAHFGC-01	6402	2.0 (34)	3.9 (21)	5.9	10.0	n/a
HR-MH9Q2E-01	6403	1.4 (34)	8.3 (21)	9.8	9.4	n/a
HR-9A6EMS-01	6406	1.6 (34)	9.3 (21)	10.9	9.2	n/a
HR-QP0I7E-01	6407	1.7 (34)	4.0 (21)	5.7	10.0	n/a
HR-BKIDIN-01	6408	10.2 (34)	4.5 (21)	14.6	8.7	n/a
HR-4OHSGY-01	6501	10.9 (34)	11.0 (21)	21.8	7.9	n/a
HR-65N323-01	6502	2.1 (34)	4.0 (21)	6.1	9.9	n/a
HR-TQ6A6U-01	6503	1.9 (34)	9.2 (21)	11.1	9.1	n/a
HR-FOYC7L-01	6506	2.2 (34)	10.7 (21)	12.9	8.9	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-UTRT0H-01	6507	1.9 (34)	4.0 (21)	6.0	10.0	n/a
HR-YDH2YZ-01	6508	10.4 (34)	4.4 (21)	14.8	8.7	n/a
HR-LOZNWQ-01	6601	23.6 (34)	5.2 (21)	28.8	7.1	n/a
HR-6AIZ7N-01	6602	5.9 (34)	10.0 (21)	15.9	8.5	n/a
HR-UN0J9A-01	6603	1.9 (34)	4.4 (21)	6.3	9.9	n/a
HR-5K08LJ-01	6604	5.4 (34)	5.5 (21)	10.9	9.2	n/a
HR-V4SNRV-01	6605	33.0 (34)	4.0 (21)	37.1	6.1	n/a
HR-ABWUHT-01	6606	32.7 (34)	4.0 (21)	36.7	6.2	n/a
HR-7CK2HU-01	6607	5.4 (34)	4.6 (21)	10.0	9.3	n/a
HR-NZRAX2-01	6608	1.7 (34)	4.4 (21)	6.1	9.9	n/a
HR-3WZ7TX-01	6609	4.3 (34)	8.2 (21)	12.4	8.9	n/a
HR-U028DP-01	6610	28.7 (34)	3.5 (21)	32.1	6.7	n/a
HR-NCOQOC-01	6701	19.1 (34)	10.4 (21)	29.5	7.0	n/a
HR-Z94H2H-01	6702	5.8 (34)	10.2 (21)	16.1	8.4	n/a
HR-0F20B7-01	6703	2.0 (34)	4.5 (21)	6.5	9.9	n/a
HR-V8YRQU-01	6704	5.5 (34)	5.5 (21)	11.0	9.2	n/a
HR-VQV99H-01	6705	31.5 (34)	4.9 (21)	36.4	6.2	n/a
HR-ENVAAN-01	6706	30.8 (34)	4.7 (21)	35.5	6.3	n/a
HR-C6NRTQ-01	6707	2.9 (34)	7.7 (21)	10.6	9.2	n/a
HR-IQEEHX-01	6708	1.0 (34)	7.9 (21)	8.9	9.5	n/a
HR-62Y2PV-01	6709	4.4 (34)	7.9 (21)	12.3	8.9	n/a
HR-A0LXK9-01	6710	26.6 (34)	5.2 (21)	31.9	6.8	n/a
HR-38WRP3-01	6801	21.4 (34)	8.2 (21)	29.6	7.0	n/a
HR-S1AB67-01	6802	6.1 (34)	10.2 (21)	16.3	8.4	n/a
HR-KG7RYI-01	6803	2.2 (34)	6.5 (21)	8.7	9.6	n/a
HR-M0AZHN-01	6804	5.8 (34)	5.4 (21)	11.2	9.1	n/a
HR-LGQ31I-01	6805	32.1 (34)	4.9 (21)	37.0	6.1	n/a
HR-9VEVEV-01	6806	31.3 (34)	4.7 (21)	36.0	6.2	n/a
HR-SBNYCR-01	6807	5.8 (34)	4.6 (21)	10.4	9.3	n/a

Summary of all dwellings

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HR-FG0166-01	6808	2.0 (34)	4.4 (21)	6.4	9.9	n/a
HR-95GUFJ-01	6809	4.1 (34)	7.6 (21)	11.6	9.1	n/a
HR-0LGKSN-01	6810	27.1 (34)	5.3 (21)	32.4	6.7	n/a
HR-OYZP8W-01	6901	23.6 (34)	7.2 (21)	30.8	6.9	n/a
HR-JOO60G-01	6902	7.3 (34)	9.7 (21)	17.1	8.4	n/a
HR-55FMLV-01	6903	3.0 (34)	4.3 (21)	7.3	9.8	n/a
HR-6LXAYE-01	6904	6.9 (34)	5.2 (21)	12.1	8.9	n/a
HR-HB6USF-01	6905	29.0 (34)	3.9 (21)	32.9	6.6	n/a
HR-YBBRDY-01	6906	28.3 (34)	3.8 (21)	32.1	6.7	n/a
HR-7LT2Q8-01	6907	6.9 (34)	4.4 (21)	11.2	9.1	n/a
HR-XGIRFP-01	6908	2.6 (34)	4.2 (21)	6.8	9.9	n/a
HR-87GEP3-01	6909	4.6 (34)	6.3 (21)	10.9	9.2	n/a
HR-2WDCL2-01	6910	29.4 (34)	5.0 (21)	34.4	6.4	n/a
HR-PC10OV-01	7001	9.1 (34)	9.4 (21)	18.6	8.2	n/a
HR-PV8GIG-01	7002	15.9 (34)	12.0 (21)	27.9	7.2	n/a
HR-S5N3K0-01	7003	5.7 (34)	15.6 (21)	21.2	7.9	n/a
HR-Q008UX-01	7004	12.4 (34)	15.3 (21)	27.7	7.2	n/a
HR-SJXBT8-01	7005	13.1 (34)	18.9 (21)	32.1	6.7	n/a
HR-YS2R6I-01	7006	18.3 (34)	7.3 (21)	25.6	7.4	n/a
HR-SCAT5Y-01	71001	14.7 (34)	7.4 (21)	22.0	7.9	n/a
HR-5V1YIU-01	71002	27.4 (34)	8.5 (21)	35.9	6.3	n/a
HR-IKGJVD-01	71003	12.7 (34)	9.7 (21)	22.4	7.8	n/a
HR-YTL8YT-01	71004	13.3 (34)	10.1 (21)	23.4	7.7	n/a
HR-7HFQ08-01	71005	12.7 (34)	9.3 (21)	22.0	7.9	n/a
HR-G39W4P-01	71006	11.2 (34)	16.0 (21)	27.2	7.3	n/a
HR-DDOXFE-01	71007	4.1 (34)	21.4 (21)	25.5	7.4	n/a
HR-ZTQ58C-01	7101	9.2 (34)	9.4 (21)	18.6	8.2	n/a
HR-5BSW87-01	7102	16.1 (34)	13.2 (21)	29.3	7.1	n/a
HR-NCIVMI-01	7103	6.5 (34)	16.9 (21)	23.4	7.7	n/a

Summary of all dwellings

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HR-GRKDJJD-01	71104	6.6 (34)	17.9 (21)	24.5	7.6	n/a
HR-YB2HX3-01	71105	6.6 (34)	17.6 (21)	24.2	7.6	n/a
HR-7PEVS1-01	71106	6.3 (34)	20.0 (21)	26.3	7.4	n/a
HR-0CPZPV-01	71107	12.8 (34)	9.0 (21)	21.8	7.9	n/a
HR-VAH23J-01	711101	17.4 (34)	7.4 (21)	24.7	7.5	n/a
HR-HJSDZ2-01	711102	28.5 (34)	8.6 (21)	37.1	6.1	n/a
HR-UB3Y4Y-01	711103	13.6 (34)	8.6 (21)	22.3	7.8	n/a
HR-SSCSL7-01	711104	15.7 (34)	9.5 (21)	25.2	7.4	n/a
HR-OPD9YY-01	711105	14.7 (34)	7.8 (21)	22.4	7.8	n/a
HR-WDFP6A-01	711106	13.9 (34)	13.6 (21)	27.5	7.3	n/a
HR-SBE9C7-01	711107	5.6 (34)	18.8 (21)	24.4	7.6	n/a
HR-S8G7VC-01	71201	16.6 (34)	7.7 (21)	24.2	7.6	n/a
HR-3PW4P5-01	71202	24.4 (34)	7.3 (21)	31.8	6.8	n/a
HR-X9MY3O-01	71203	14.6 (34)	8.3 (21)	22.9	7.8	n/a
HR-ICJAOE-01	71204	15.4 (34)	9.8 (21)	25.2	7.4	n/a
HR-CY5QJI-01	71205	13.8 (34)	8.3 (21)	22.0	7.9	n/a
HR-O17PL5-01	71206	13.1 (34)	14.5 (21)	27.6	7.2	n/a
HR-7CJC6A-01	71207	5.1 (34)	19.6 (21)	24.7	7.5	n/a
HR-QZOB1-01	71301	17.8 (34)	7.2 (21)	24.9	7.5	n/a
HR-7YVKO7-01	71302	25.6 (34)	7.4 (21)	33.1	6.6	n/a
HR-F7XCXT-01	71303	16.2 (34)	7.7 (21)	23.9	7.6	n/a
HR-OWDJEV-01	71304	16.6 (34)	9.3 (21)	25.9	7.4	n/a
HR-LLXVM4-01	71305	15.0 (34)	7.9 (21)	22.9	7.8	n/a
HR-UIYGEB-01	71306	14.2 (34)	13.5 (21)	27.7	7.2	n/a
HR-2V84CE-01	71307	5.5 (34)	18.4 (21)	23.9	7.6	n/a
HR-71FUB6-01	71401	16.9 (34)	7.4 (21)	24.3	7.6	n/a
HR-VNZN44-01	71402	28.6 (34)	9.1 (21)	37.7	6.0	n/a
HR-BNMDHV-01	71403	15.0 (34)	8.3 (21)	23.3	7.7	n/a
HR-DAIEF0-01	71404	15.9 (34)	10.0 (21)	25.8	7.4	n/a

Summary of all dwellings

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HR-N86CQM-01	71405	14.4 (34)	8.6 (21)	23.0	7.8	n/a
HR-CQ977E-01	71406	13.4 (34)	14.3 (21)	27.7	7.2	n/a
HR-ZKK081-01	71407	5.2 (34)	20.0 (21)	25.2	7.4	n/a
HR-LNPXSI-01	71501	17.7 (34)	7.2 (21)	24.9	7.5	n/a
HR-VU25FA-01	71502	29.1 (34)	8.7 (21)	37.7	6.0	n/a
HR-YBVH06-01	71503	15.5 (34)	8.0 (21)	23.5	7.7	n/a
HR-26LT91-01	71504	16.5 (34)	9.8 (21)	26.4	7.4	n/a
HR-N3H28Y-01	71505	14.7 (34)	8.1 (21)	22.9	7.8	n/a
HR-VOOZZ6-01	71506	14.3 (34)	13.6 (21)	27.9	7.2	n/a
HR-J38WGO-01	71507	8.3 (34)	21.3 (21)	29.6	7.0	n/a
HR-CD43LE-01	71601	14.0 (34)	9.1 (21)	23.1	7.7	n/a
HR-G1KTYT-01	71602	27.6 (34)	10.1 (21)	37.7	6.0	n/a
HR-VRN61X-01	71603	14.8 (34)	8.3 (21)	23.0	7.7	n/a
HR-IWXF4B-01	71604	16.0 (34)	10.2 (21)	26.2	7.4	n/a
HR-W785Y5-01	71605	14.2 (34)	8.4 (21)	22.6	7.8	n/a
HR-XC2WTI-01	71606	11.5 (34)	15.6 (21)	27.1	7.3	n/a
HR-3O955C-01	71607	4.6 (34)	20.2 (21)	24.8	7.5	n/a
HR-EXYEFX-01	71701	19.2 (34)	9.8 (21)	29.0	7.1	n/a
HR-KIEX3J-01	71702	28.5 (34)	9.4 (21)	37.9	6.0	n/a
HR-5RPBK3-01	71703	20.9 (34)	9.7 (21)	30.7	6.9	n/a
HR-LKLEZK-01	71704	24.0 (34)	9.1 (21)	33.2	6.6	n/a
HR-E3FX4C-01	71705	19.0 (34)	10.6 (21)	29.6	7.0	n/a
HR-0BEV9R-01	71706	20.1 (34)	16.8 (21)	36.9	6.1	n/a
HR-TUWNWX-01	71707	8.7 (34)	20.8 (21)	29.4	7.1	n/a
HR-RB5H38-01	71801	19.1 (34)	6.9 (21)	25.9	7.4	n/a
HR-L7X2Z5-01	71802	25.9 (34)	7.4 (21)	33.2	6.6	n/a
HR-KJ5RCZ-01	71803	16.1 (34)	8.1 (21)	24.1	7.6	n/a
HR-LYB6F9-01	71804	19.3 (34)	8.1 (21)	27.4	7.3	n/a
HR-SC59O1-01	71805	15.9 (34)	12.5 (21)	28.4	7.2	n/a

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HR-7O4KAE-01	71806	8.3 (34)	19.1 (21)	27.5	7.3	n/a
HR-2MX8IJ-01	71901	19.9 (34)	6.8 (21)	26.7	7.3	n/a
HR-5Q72HT-01	71902	24.4 (34)	7.3 (21)	31.7	6.8	n/a
HR-VHVL6V-01	71903	12.1 (34)	8.1 (21)	20.2	8.1	n/a
HR-R576NS-01	71904	19.9 (34)	7.6 (21)	27.5	7.2	n/a
HR-S2C3Z6-01	71905	16.5 (34)	11.6 (21)	28.2	7.2	n/a
HR-1YZ22L-01	71906	8.7 (34)	18.0 (21)	26.7	7.3	n/a
HR-5TNBNT-01	72001	18.7 (34)	7.1 (21)	25.8	7.4	n/a
HR-R3IA2K-01	72002	23.7 (34)	7.4 (21)	31.1	6.9	n/a
HR-EWIXIL-01	72003	11.8 (34)	8.7 (21)	20.5	8.1	n/a
HR-WUAAPT-01	72004	19.4 (34)	7.9 (21)	27.3	7.3	n/a
HR-DHWBBZ-01	72005	15.7 (34)	12.4 (21)	28.1	7.2	n/a
HR-7UMR2O-01	72006	8.4 (34)	19.0 (21)	27.4	7.3	n/a
HR-L5O37L-01	7201	9.3 (34)	9.2 (21)	18.5	8.2	n/a
HR-EECRGX-01	7202	18.1 (34)	11.6 (21)	29.7	7.0	n/a
HR-YNHI3R-01	7203	6.5 (34)	16.6 (21)	23.2	7.7	n/a
HR-PT892L-01	7204	7.0 (34)	17.2 (21)	24.2	7.6	n/a
HR-03ZM0D-01	7205	7.0 (34)	17.0 (21)	24.0	7.6	n/a
HR-1R3H4I-01	7206	5.7 (34)	21.1 (21)	26.8	7.3	n/a
HR-Z0UL7S-01	7207	11.8 (34)	9.7 (21)	21.6	7.9	n/a
HR-9C4S8R-01	72101	27.4 (34)	8.7 (21)	36.1	6.2	n/a
HR-DTQ8Q1-01	72102	27.4 (34)	9.0 (21)	36.4	6.2	n/a
HR-YURD9L-01	72103	22.6 (34)	10.7 (21)	33.3	6.6	n/a
HR-JY1VNT-01	72104	26.3 (34)	9.3 (21)	35.6	6.3	n/a
HR-925UF3-01	72105	24.4 (34)	12.5 (21)	36.9	6.1	n/a
HR-WHTCSM-01	72106	14.8 (34)	18.6 (21)	33.4	6.6	n/a
HR-X6S153-01	7301	9.8 (34)	8.6 (21)	18.3	8.3	n/a
HR-5Z3WQZ-01	7302	19.7 (34)	10.6 (21)	30.3	6.9	n/a
HR-T582MJ-01	7303	7.8 (34)	14.5 (21)	22.3	7.8	n/a

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HR-75Q699-01	7304	8.1 (34)	15.8 (21)	23.9	7.6	n/a
HR-TOHA0W-01	7305	8.3 (34)	14.2 (21)	22.5	7.8	n/a
HR-KPIZKH-01	7306	7.2 (34)	18.7 (21)	26.0	7.4	n/a
HR-1UUBYT-01	7307	13.0 (34)	11.0 (21)	24.0	7.6	n/a
HR-V3G0AB-01	7401	12.7 (34)	8.3 (21)	21.0	7.9	n/a
HR-BK9TEP-01	7402	24.2 (34)	8.7 (21)	32.9	6.6	n/a
HR-4T6Z2Q-01	7403	10.5 (34)	10.5 (21)	20.9	8.0	n/a
HR-MDYLP5-01	7404	10.8 (34)	11.0 (21)	21.8	7.9	n/a
HR-C12CK5-01	7405	12.0 (34)	15.7 (21)	27.7	7.2	n/a
HR-QJG4AL-01	7406	9.3 (34)	16.3 (21)	25.6	7.4	n/a
HR-P4Y8LK-01	7407	9.9 (34)	13.7 (21)	23.6	7.7	n/a
HR-S904RA-01	7501	13.4 (34)	7.3 (21)	20.8	8.0	n/a
HR-9MXBV4-01	7502	23.5 (34)	9.2 (21)	32.7	6.7	n/a
HR-XD6J61-01	7503	11.5 (34)	9.7 (21)	21.1	7.9	n/a
HR-20ORPM-01	7504	11.8 (34)	10.6 (21)	22.4	7.8	n/a
HR-WYVAAQ-01	7505	11.9 (34)	10.2 (21)	22.0	7.9	n/a
HR-0G6ALD-01	7506	10.2 (34)	15.2 (21)	25.4	7.4	n/a
HR-SF2IGO-01	7507	9.4 (34)	17.7 (21)	27.0	7.3	n/a
HR-B67J3O-01	7601	13.4 (34)	7.9 (21)	21.3	7.9	n/a
HR-8FSM5R-01	7602	23.3 (34)	9.7 (21)	33.0	6.6	n/a
HR-TBAE94-01	7603	11.4 (34)	10.1 (21)	21.6	7.9	n/a
HR-PNAGF6-01	7604	11.9 (34)	10.7 (21)	22.6	7.8	n/a
HR-1X0EOX-01	7605	11.7 (34)	10.4 (21)	22.1	7.9	n/a
HR-32XSP4-01	7606	10.2 (34)	16.3 (21)	26.5	7.4	n/a
HR-GPHJPM-01	7607	5.1 (34)	20.7 (21)	25.8	7.4	n/a
HR-87N23Z-01	7701	14.0 (34)	7.6 (21)	21.6	7.9	n/a
HR-Q18P30-01	7702	24.6 (34)	9.2 (21)	33.8	6.5	n/a
HR-WB463A-01	7703	12.2 (34)	9.5 (21)	21.7	7.9	n/a
HR-FO1Z2H-01	7704	12.7 (34)	10.3 (21)	22.9	7.8	n/a

Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m ² .yr)	Cooling load (load limit) (MJ/m ² .yr)	Total load (MJ/m ² .yr)	Star Rating	Whole of Home Rating
HR-PLT9GS-01	7705	12.6 (34)	9.5 (21)	22.2	7.9	n/a
HR-X9GX3S-01	7706	11.0 (34)	15.2 (21)	26.2	7.4	n/a
HR-CD0HV3-01	7707	4.0 (34)	20.4 (21)	24.3	7.6	n/a
HR-7XGFDD-01	7801	13.7 (34)	7.7 (21)	21.4	7.9	n/a
HR-21RVM8-01	7802	24.2 (34)	9.5 (21)	33.8	6.5	n/a
HR-1VRE5N-01	7803	11.9 (34)	9.8 (21)	21.7	7.9	n/a
HR-ATS3AN-01	7804	12.5 (34)	10.4 (21)	22.9	7.8	n/a
HR-2UXPOD-01	7805	10.1 (34)	12.8 (21)	22.9	7.8	n/a
HR-T0HWCK-01	7806	10.8 (34)	16.1 (21)	26.8	7.3	n/a
HR-7MWI1G-01	7807	3.7 (34)	21.4 (21)	25.0	7.4	n/a
HR-04RKBC-01	7901	15.0 (34)	7.5 (21)	22.5	7.8	n/a
HR-B7JPUX-01	7902	25.4 (34)	9.1 (21)	34.5	6.4	n/a
HR-DWXV7A-01	7903	12.4 (34)	9.6 (21)	22.0	7.9	n/a
HR-JIORBX-01	7904	13.4 (34)	10.3 (21)	23.7	7.7	n/a
HR-AUPO89-01	7905	14.5 (34)	7.8 (21)	22.3	7.8	n/a
HR-7LNFQU-01	7906	11.6 (34)	14.9 (21)	26.4	7.4	n/a
HR-0QCROS-01	7907	4.3 (34)	20.5 (21)	24.8	7.5	n/a
Averages	339x (Total)	13.6	8.7	22.3	7.9	n/a
Maximum Loads and Minimum Ratings		33.0	21.4	37.9	6.0	n/a

Explanatory notes

About the ratings

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

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the energy loads and societal cost. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy production and storage to estimate the home's societal cost.

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

Accredited Assessors

For high quality NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

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

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in certificates is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy use, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

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

BASIX[®]Certificate

Building Sustainability Index www.basix.nsw.gov.au

Multi Dwelling

Certificate number: 1771722M_02

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.basix.nsw.gov.au

Secretary

Date of issue: Wednesday, 06 November 2024

To be valid, this certificate must be submitted with a development application or lodged with a complying development certificate application within 3 months of the date of issue.



Project summary

Project name	1 Crescent Street Holroyd - Phase 3_02
Street address	1 CRESCENT STREET HOLROYD 2142
Local Government Area	CUMBERLAND
Plan type and plan number	Deposited Plan 1241836
Lot No.	700
Section no.	-
No. of residential flat buildings	2
Residential flat buildings: no. of dwellings	339
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

Project score

Water	✓ 40	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 63	Target 63
Materials	✓ -100	Target n/a

Certificate Prepared by

Name / Company Name: Efficient Living Pty Ltd

ABN (if applicable): 82116346082

Description of project

Project address	
Project name	1 Crescent Street Holroyd - Phase 3_02
Street address	1 CRESCENT STREET HOLROYD 2142
Local Government Area	CUMBERLAND
Plan type and plan number	Deposited Plan 1241836
Lot No.	700
Section no.	-
Project type	
No. of residential flat buildings	2
Residential flat buildings: no. of dwellings	339
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	37904
Roof area (m²)	2307
Non-residential floor area (m²)	0
Residential car spaces	415
Non-residential car spaces	0

Common area landscape		
Common area lawn (m²)	216	
Common area garden (m²)	5511	
Area of indigenous or low water use species (m²)	3858	
Assessor details and thermal loads		
Assessor number	HERA10213	
Certificate number	HR-JN0LM5-01	
Climate zone	56	
Project score		
Water	✔ 40	Target 40
Thermal Performance	✔ Pass	Target Pass
Energy	✔ 63	Target 63
Materials	✔ -100	Target n/a

Description of project

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

Residential flat buildings - Building6, 190 dwellings, 23 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)
6001	1	62.3	0	0	0
6006	3	115.6	0	0	0
61001	2	86.7	0	0	0
61005	2	83.9	0	0	0
61009	3	114.9	0	0	0
6103	2	79.9	0	0	0
61101	2	86.7	0	0	0
61105	2	83.9	0	0	0
61109	3	114.9	0	0	0
61203	1	56.1	0	0	0
61207	2	80.3	0	0	0
61301	2	86.7	0	0	0
61305	2	83.9	0	0	0
61309	3	114.9	0	0	0
61403	1	56.1	0	0	0
61407	2	80.3	0	0	0
61501	2	86.7	0	0	0
61505	2	83.9	0	0	0
61509	3	114.9	0	0	0
61603	1	56.1	0	0	0
61607	2	80.3	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)
6002	3	146.4	0	0	0
6007	3	137.1	0	0	0
61002	3	114.9	0	0	0
61006	2	83.9	0	0	0
6101	3	114.9	0	0	0
6106	2	79.9	0	0	0
61102	3	114.9	0	0	0
61106	2	83.9	0	0	0
61110	2	86.7	0	0	0
61204	2	80.3	0	0	0
61208	1	56	0	0	0
61302	3	114.9	0	0	0
61306	2	83.9	0	0	0
61310	2	86.7	0	0	0
61404	2	80.3	0	0	0
61408	1	56	0	0	0
61502	3	114.9	0	0	0
61506	2	83.9	0	0	0
61510	2	86.7	0	0	0
61604	2	80.3	0	0	0
61608	1	56	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)
6003	3	137.1	0	0	0
6008	3	146.4	0	0	0
61003	1	56.1	0	0	0
61007	2	80.3	0	0	0
61010	2	86.7	0	0	0
6107	2	78.7	0	0	0
61103	1	56.1	0	0	0
61107	2	80.3	0	0	0
61201	2	86.7	0	0	0
61205	2	83.9	0	0	0
61209	3	114.9	0	0	0
61303	1	56.1	0	0	0
61307	2	80.3	0	0	0
61401	2	86.7	0	0	0
61405	2	83.9	0	0	0
61409	3	114.9	0	0	0
61503	1	56.1	0	0	0
61507	2	80.3	0	0	0
61601	2	86.7	0	0	0
61605	2	83.9	0	0	0
61609	3	114.9	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)
6004	3	115.6	0	0	0
6009	1	62.3	0	0	0
61004	2	80.3	0	0	0
61008	1	56	0	0	0
6102	2	78.7	0	0	0
6108	3	114.9	0	0	0
61104	2	80.3	0	0	0
61108	1	56	0	0	0
61202	3	114.9	0	0	0
61206	2	83.9	0	0	0
61210	2	86.7	0	0	0
61304	2	80.3	0	0	0
61308	1	56	0	0	0
61402	3	114.9	0	0	0
61406	2	83.9	0	0	0
61410	2	86.7	0	0	0
61504	2	80.3	0	0	0
61508	1	56	0	0	0
61602	3	114.9	0	0	0
61606	2	83.9	0	0	0
61610	2	86.7	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)
61701	2	86.7	0	0	0
61705	2	83.9	0	0	0
61709	3	114.9	0	0	0
61803	1	56.1	0	0	0
61807	2	80.3	0	0	0
61901	2	86.7	0	0	0
61905	2	83.9	0	0	0
61909	3	114.9	0	0	0
62003	2	80.3	0	0	0
62008	3	125.2	0	0	0
6203	2	79.9	0	0	0
62106	2	83.9	0	0	0
6301	3	114.9	0	0	0
6307	2	78.7	0	0	0
6403	2	79.9	0	0	0
6501	3	114.9	0	0	0
6507	2	78.7	0	0	0
6603	1	56.1	0	0	0
6607	2	80.3	0	0	0
6701	2	86.7	0	0	0
6705	2	83.9	0	0	0
6709	3	114.9	0	0	0
6803	1	56.1	0	0	0
6807	2	80.3	0	0	0
6901	2	86.7	0	0	0
6905	2	83.9	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)
61702	3	114.9	0	0	0
61706	2	83.9	0	0	0
61710	2	86.7	0	0	0
61804	2	80.3	0	0	0
61808	1	56	0	0	0
61902	3	114.9	0	0	0
61906	2	83.9	0	0	0
61910	2	86.7	0	0	0
62004	2	83.9	0	0	0
62009	3	123.5	0	0	0
6206	2	79.9	0	0	0
62107	2	80.3	0	0	0
6302	2	78.7	0	0	0
6308	3	114.9	0	0	0
6406	2	79.9	0	0	0
6502	2	78.7	0	0	0
6508	3	114.9	0	0	0
6604	2	80.3	0	0	0
6608	1	56	0	0	0
6702	3	114.9	0	0	0
6706	2	83.9	0	0	0
6710	2	86.7	0	0	0
6804	2	80.3	0	0	0
6808	1	56	0	0	0
6902	3	114.9	0	0	0
6906	2	83.9	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)
61703	1	56.1	0	0	0
61707	2	80.3	0	0	0
61801	2	86.7	0	0	0
61805	2	83.9	0	0	0
61809	3	114.9	0	0	0
61903	1	56.1	0	0	0
61907	2	80.3	0	0	0
62001	3	123.5	0	0	0
62006	2	83.9	0	0	0
6201	3	114.9	0	0	0
6207	2	78.7	0	0	0
62108	3	125.2	0	0	0
6303	2	79.9	0	0	0
6401	3	114.9	0	0	0
6407	2	78.7	0	0	0
6503	2	79.9	0	0	0
6601	2	86.7	0	0	0
6605	2	83.9	0	0	0
6609	3	114.9	0	0	0
6703	1	56.1	0	0	0
6707	2	80.3	0	0	0
6801	2	86.7	0	0	0
6805	2	83.9	0	0	0
6809	3	114.9	0	0	0
6903	1	56.1	0	0	0
6907	2	80.3	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)
61704	2	80.3	0	0	0
61708	1	56	0	0	0
61802	3	114.9	0	0	0
61806	2	83.9	0	0	0
61810	2	86.7	0	0	0
61904	2	80.3	0	0	0
61908	1	56	0	0	0
62002	3	125.2	0	0	0
62007	2	80.3	0	0	0
6202	2	78.7	0	0	0
6208	3	114.9	0	0	0
62109	3	123.5	0	0	0
6306	2	79.9	0	0	0
6402	2	78.7	0	0	0
6408	3	114.9	0	0	0
6506	2	79.9	0	0	0
6602	3	114.9	0	0	0
6606	2	83.9	0	0	0
6610	2	86.7	0	0	0
6704	2	80.3	0	0	0
6708	1	56	0	0	0
6802	3	114.9	0	0	0
6806	2	83.9	0	0	0
6810	2	86.7	0	0	0
6904	2	80.3	0	0	0
6908	1	56	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
6909	3	114.9	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
6910	2	86.7	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
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Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
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Residential flat buildings - Building7, 149 dwellings, 23 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
7001	2	87.3	0	0	0
7005	3	122.2	0	0	0
71003	2	84.5	0	0	0
71007	3	119.7	0	0	0
7104	1	54.3	0	0	0
71101	2	87.3	0	0	0
71105	2	84	0	0	0
71202	2	92.7	0	0	0
71206	2	95.7	0	0	0
71303	2	84.5	0	0	0
71307	3	119.7	0	0	0
71404	1	54.3	0	0	0
71501	2	87.3	0	0	0
71505	2	84	0	0	0
71602	2	92.7	0	0	0
71606	2	95.7	0	0	0
71703	2	84.5	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
7002	2	92.7	0	0	0
7006	3	119.7	0	0	0
71004	1	54.3	0	0	0
7101	2	87.3	0	0	0
7105	2	84.1	0	0	0
71102	2	92.7	0	0	0
71106	2	95.7	0	0	0
71203	2	84.5	0	0	0
71207	3	119.7	0	0	0
71304	1	54.3	0	0	0
71401	2	87.3	0	0	0
71405	2	84	0	0	0
71502	2	92.7	0	0	0
71506	2	95.7	0	0	0
71603	2	84.5	0	0	0
71607	3	119.7	0	0	0
71704	1	54.3	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
7003	2	84.1	0	0	0
71001	2	87.3	0	0	0
71005	2	84	0	0	0
7102	2	92.7	0	0	0
7106	2	95.7	0	0	0
71103	2	84.5	0	0	0
71107	3	119.7	0	0	0
71204	1	54.3	0	0	0
71301	2	87.3	0	0	0
71305	2	84	0	0	0
71402	2	92.7	0	0	0
71406	2	95.7	0	0	0
71503	2	84.5	0	0	0
71507	3	119.7	0	0	0
71604	1	54.3	0	0	0
71701	2	87.3	0	0	0
71705	2	84	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
7004	3	114.1	0	0	0
71002	2	92.7	0	0	0
71006	2	95.7	0	0	0
7103	2	84.5	0	0	0
7107	3	119.7	0	0	0
71104	1	54.3	0	0	0
71201	2	87.3	0	0	0
71205	2	84	0	0	0
71302	2	92.7	0	0	0
71306	2	95.7	0	0	0
71403	2	84.5	0	0	0
71407	3	119.7	0	0	0
71504	1	54.3	0	0	0
71601	2	87.3	0	0	0
71605	2	84	0	0	0
71702	2	92.7	0	0	0
71706	2	95.7	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
71707	3	119.7	0	0	0
71804	1	114.1	0	0	0
71902	2	92.7	0	0	0
71906	2	119.7	0	0	0
72004	2	114.1	0	0	0
7202	2	92.7	0	0	0
7206	2	95.7	0	0	0
72103	2	84.1	0	0	0
7301	2	87.3	0	0	0
7305	2	84	0	0	0
7402	2	92.7	0	0	0
7406	2	95.7	0	0	0
7503	2	84.5	0	0	0
7507	3	119.7	0	0	0
7604	1	54.3	0	0	0
7701	2	87.3	0	0	0
7705	2	84	0	0	0
7802	2	92.7	0	0	0
7806	2	95.7	0	0	0
7903	2	84.5	0	0	0
7907	3	119.7	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
71801	2	87.3	0	0	0
71805	2	122.2	0	0	0
71903	2	84.1	0	0	0
72001	2	87.3	0	0	0
72005	2	122.2	0	0	0
7203	2	84.5	0	0	0
7207	3	119.7	0	0	0
72104	2	114.1	0	0	0
7302	2	92.7	0	0	0
7306	2	95.7	0	0	0
7403	2	84.5	0	0	0
7407	3	119.7	0	0	0
7504	1	54.3	0	0	0
7601	2	87.3	0	0	0
7605	2	84	0	0	0
7702	2	92.7	0	0	0
7706	2	95.7	0	0	0
7803	2	84.5	0	0	0
7807	3	119.7	0	0	0
7904	1	54.3	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
71802	2	92.7	0	0	0
71806	2	119.7	0	0	0
71904	2	114.1	0	0	0
72002	3	92.7	0	0	0
72006	3	119.7	0	0	0
7204	1	54.3	0	0	0
72101	3	87.3	0	0	0
72105	2	122.2	0	0	0
7303	2	84.5	0	0	0
7307	3	119.7	0	0	0
7404	1	54.3	0	0	0
7501	2	87.3	0	0	0
7505	2	84	0	0	0
7602	2	92.7	0	0	0
7606	2	95.7	0	0	0
7703	2	84.5	0	0	0
7707	3	119.7	0	0	0
7804	1	54.3	0	0	0
7901	2	87.3	0	0	0
7905	2	84	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
71803	2	84.1	0	0	0
71901	3	87.3	0	0	0
71905	1	122.2	0	0	0
72003	2	84.1	0	0	0
7201	2	87.3	0	0	0
7205	2	84	0	0	0
72102	3	92.7	0	0	0
72106	3	119.7	0	0	0
7304	1	54.3	0	0	0
7401	2	87.3	0	0	0
7405	2	84	0	0	0
7502	2	92.7	0	0	0
7506	2	95.7	0	0	0
7603	2	84.5	0	0	0
7607	3	119.7	0	0	0
7704	1	54.3	0	0	0
7801	2	87.3	0	0	0
7805	2	84	0	0	0
7902	2	92.7	0	0	0
7906	2	95.7	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 (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Undercover car park area	15988	Garbage rooms	312	Mec vent plant or service rooms	455
Outdoor Communal area	640	Post room/storage/FCR	384	Bike Space	74
Ground floor lobby	293	Hallway/lobby type	2511	Mec vent Hallway/lobby type	682

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building6

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for Residential flat buildings - Building7

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

3. Commitments for multi-dwelling housing

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

4. Commitments for single dwelling houses

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance and Materials

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

(a) Buildings 'Other'

(i) Materials

(b) 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 - Building6

(a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
concrete slab on ground, frame:	451	-	none
suspended floor above open subfloor, frame: suspended concrete slab	321	-	-
floors above habitable rooms, frame: suspended concrete slab	15954	-	-
suspended floor above open subfloor, frame: suspended concrete slab	950	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards), frame: light steel frame	10360	-	-

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 2	off form concrete,frame:no frame	2567	none	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	14592	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	6444	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	288	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1375	-	-

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	4076	-	4076	-	-	-	-

(b) 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.	✓	✓	✓

	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
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	5 star	5 star	-	not specified	4 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	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.	✓	✓	✓
(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;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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 with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	4 star	8.0 star	no	no

(iii) Thermal Performance	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)	Area adjusted total load (in MJ/m ² /yr)
6001	29.40	8.5	37.900
6002	4.60	13.1	17.700
6003	1.30	6.9	8.200
6004	0.70	16.7	17.400

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
6006	0.80	17.9	18.700
6007	1.20	7.4	8.600
6008	4.90	8.7	13.600
6009	30.80	5.1	35.900
61001	23.80	7.2	31.000
61002	7.40	9.7	17.100
61003	3	4.4	7.400
61004	7	5.2	12.200
61005	29.20	3.9	33.100
61006	28.40	3.9	32.300
61007	7	4.4	11.400
61008	2.60	4.3	6.900
61009	4.70	6.5	11.200
6101	8	13.5	21.500
61010	29.60	5	34.600
6102	0.70	4.1	4.800
6103	0.60	9.5	10.100
6106	0.70	11	11.700
6107	0.70	4	4.700
6108	7.70	5.5	13.200
61101	24.20	7.3	31.500
61102	7.70	9.5	17.200
61103	3	4.5	7.500
61106	28.70	3.9	32.600
61108	2.70	4.4	7.100
61109	4.90	6.3	11.200
61110	29.90	5	34.900
61201	25.70	6.8	32.500
61202	8	9.6	17.600
61205	29.60	4	33.600
61206	28.80	3.8	32.600

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
61208	2.60	4.4	7.000
61209	4.90	6.7	11.600
61210	29.90	5.3	35.200
61301	25.80	6.7	32.500
61302	8	9.9	17.900
61304	7.40	5	12.400
61305	29.80	4	33.800
61306	28.90	3.8	32.700
61307	7.40	4.4	11.800
61309	5	6.8	11.800
61310	30.00	5.3	35.300
61401	26.00	6.6	32.600
61403	2.70	4.3	7.000
61404	7.60	5	12.600
61405	30.00	4	34.000
61406	29.20	3.7	32.900
61407	7.60	4.4	12.000
61409	5	7.1	12.100
61410	30.10	5.4	35.500
61503	2.90	4.7	7.600
61504	7.70	5	12.700
61505	30.10	4.1	34.200
61506	29.30	3.7	33.000
61509	5	7.7	12.700
61510	29.50	5.6	35.100
61602	8.20	9.7	17.900
61604	7.80	5	12.800
61605	30.20	4.2	34.400
61606	29.40	3.7	33.100
61608	2.80	4.5	7.300
61609	5	9.3	14.300

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
61610	28.50	5.7	34.200
61701	26.10	6.7	32.800
61702	8.30	9.8	18.100
61704	7.90	5	12.900
61705	30.30	4.1	34.400
61707	7.80	4.3	12.100
61708	2.80	4.4	7.200
61709	4.70	10.6	15.300
61710	26.50	5.8	32.300
61801	26.00	6.8	32.800
61802	8.40	9.8	18.200
61803	3	4.7	7.700
61804	7.90	5.1	13.000
61805	30.30	4.2	34.500
61806	29.30	3.9	33.200
61807	7.90	4.5	12.400
61809	4.40	11.7	16.100
61810	22.70	5.9	28.600
61901	25.90	7	32.900
61902	9.90	10.1	20.000
61903	3.10	4.8	7.900
61904	8	5.3	13.300
61905	29.60	4.4	34.000
61906	28.60	4.3	32.900
61907	7.90	4.2	12.100
61908	3.10	4.5	7.600
61909	4.60	13	17.600
61910	18.80	6.1	24.900
62001	27.40	9.1	36.500
62002	18.20	5.9	24.100
62003	17.70	7.4	25.100

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
62004	29.60	8	37.600
62006	27.40	4.8	32.200
62007	7.70	4.4	12.100
62008	18.50	6.3	24.800
62009	28.70	8.5	37.200
6201	8.50	13.2	21.700
6202	0.90	4.1	5.000
6203	0.70	9.4	10.100
6206	0.80	10.8	11.600
6207	0.80	4.1	4.900
6208	8.20	5.4	13.600
62106	16.60	8.6	25.200
62107	15.90	6.5	22.400
6301	10.40	11.1	21.500
6302	1.80	4	5.800
6303	1.30	8.4	9.700
6306	1.50	9.5	11.000
6307	1.60	3.9	5.500
6308	9.80	4.5	14.300
6401	10.70	11.1	21.800
6402	2	3.9	5.900
6403	1.40	8.3	9.700
6406	1.60	9.3	10.900
6407	1.70	4	5.700
6408	10.20	4.5	14.700
6501	10.90	11	21.900
6502	2.10	4	6.100
6503	1.90	9.2	11.100
6506	2.20	10.7	12.900
6507	1.90	4	5.900
6508	10.40	4.4	14.800

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
6601	23.60	5.2	28.800
6602	5.90	10	15.900
6603	1.90	4.4	6.300
6604	5.40	5.5	10.900
6605	33.00	4	37.000
6606	32.70	4	36.700
6607	5.40	4.6	10.000
6608	1.70	4.4	6.100
6609	4.30	8.2	12.500
6610	28.70	3.5	32.200
6701	19.10	10.4	29.500
6702	5.80	10.2	16.000
6703	2	4.5	6.500
6704	5.50	5.5	11.000
6705	31.50	4.9	36.400
6706	30.80	4.7	35.500
6707	2.90	7.7	10.600
6708	1	7.9	8.900
6709	4.40	7.9	12.300
6710	26.60	5.2	31.800
6801	21.40	8.2	29.600
6802	6.10	10.2	16.300
6803	2.20	6.5	8.700
6804	5.80	5.4	11.200
6805	32.10	4.9	37.000
6806	31.30	4.7	36.000
6807	5.80	4.6	10.400
6808	2	4.4	6.400
6809	4.10	7.6	11.700
6810	27.10	5.3	32.400
6901	23.60	7.2	30.800

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
6902	7.30	9.7	17.000
6903	3	4.3	7.300
6904	6.90	5.2	12.100
6905	29.00	3.9	32.900
6906	28.30	3.8	32.100
6907	6.90	4.4	11.300
6908	2.60	4.2	6.800
6909	4.60	6.3	10.900
6910	29.40	5	34.400
61104, 61204	7.30	5.2	12.500
61105, 61706	29.50	3.9	33.400
61107, 61207	7.30	4.5	11.800
61203, 61508	2.80	4.6	7.400
61303, 61808	2.70	4.6	7.300
61308, 61408	2.60	4.6	7.200
61402, 61502	8.10	9.9	18.000
61501, 61601	26.10	6.6	32.700
61507, 61607	7.70	4.3	12.000
61603, 61703	2.90	4.5	7.400
All other dwellings	28.20	8.6	36.800

(c) 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.	✓	✓	✓

Central energy systems	Type	Specification
Lift bank (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 23 number of levels from the bottom of the lift shaft to the top of the lift shaft: 23 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Lift bank (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 22 number of levels from the bottom of the lift shaft to the top of the lift shaft: 23 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Central hot water system (No. 1)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

2. Commitments for Residential flat buildings - Building7

(a) Buildings

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types			
Floor type	Area (m2)	Insulation	Low emissions option
floors above habitable rooms, frame: suspended concrete slab	13271	-	-
suspended floor above open subfloor, frame: suspended concrete slab	338	-	-
suspended floor above open subfloor, frame: suspended concrete slab	750	-	-

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards), frame: light steel frame	8885	-	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame: light steel frame	12147	-
Internal wall type 2	75 mm AAC panel, frame: light steel frame	5030	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	142	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	932	-	-

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	4473	-	4473	-	-	-	-

(b) 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.	✓	✓	✓

	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
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	5 star	5 star	-	not specified	4 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	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.	✓	✓	✓
(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;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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 with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.0 - 3.5	1-phase airconditioning - ducted / EER 3.5 - 4.0	1-phase airconditioning - ducted / EER 3.5 - 4.0	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	gas cooktop & electric oven	4 star	8.0 star	no	no

(iii) Thermal Performance	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)	Area adjusted total load (in MJ/m ² /yr)
7001	9.10	9.4	18.500
7002	15.90	12	27.900
7003	5.70	15.6	21.300
7004	12.40	15.3	27.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
7005	13.10	18.9	32.000
7006	18.30	7.3	25.600
71001	14.70	7.4	22.100
71002	27.40	8.5	35.900
71003	12.70	9.7	22.400
71004	13.30	10.1	23.400
71005	12.70	9.3	22.000
71006	11.20	16	27.200
71007	4.10	21.4	25.500
7101	9.20	9.4	18.600
7102	16.10	13.2	29.300
7103	6.50	16.9	23.400
7104	6.60	17.9	24.500
7105	6.60	17.6	24.200
7106	6.30	20	26.300
7107	12.80	9	21.800
71101	17.40	7.4	24.800
71102	28.50	8.6	37.100
71103	13.60	8.6	22.200
71104	15.70	9.5	25.200
71105	14.70	7.8	22.500
71106	13.90	13.6	27.500
71107	5.60	18.8	24.400
71201	16.60	7.7	24.300
71203	14.60	8.3	22.900
71204	15.40	9.8	25.200
71205	13.80	8.3	22.100
71206	13.10	14.5	27.600
71207	5.10	19.6	24.700
71301	17.80	7.2	25.000
71302	25.60	7.4	33.000

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
71303	16.20	7.7	23.900
71304	16.60	9.3	25.900
71305	15.00	7.9	22.900
71306	14.20	13.5	27.700
71307	5.50	18.4	23.900
71401	16.90	7.4	24.300
71402	28.60	9.1	37.700
71403	15.00	8.3	23.300
71404	15.90	10	25.900
71405	14.40	8.6	23.000
71406	13.40	14.3	27.700
71407	5.20	20	25.200
71501	17.70	7.2	24.900
71502	29.10	8.7	37.800
71503	15.50	8	23.500
71504	16.50	9.8	26.300
71505	14.70	8.1	22.800
71506	14.30	13.6	27.900
71507	8.30	21.3	29.600
71601	14.00	9.1	23.100
71602	27.60	10.1	37.700
71603	14.80	8.3	23.100
71604	16.00	10.2	26.200
71605	14.20	8.4	22.600
71606	11.50	15.6	27.100
71607	4.60	20.2	24.800
71701	19.20	9.8	29.000
71702	28.50	9.4	37.900
71703	20.90	9.7	30.600
71704	24.00	9.1	33.100
71705	19.00	10.6	29.600

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
71706	20.10	16.8	36.900
71707	8.70	20.8	29.500
71801	19.10	6.9	26.000
71802	25.90	7.4	33.300
71803	16.10	8.1	24.200
71804	19.30	8.1	27.400
71805	15.90	12.5	28.400
71806	8.30	19.1	27.400
71901	19.90	6.8	26.700
71903	12.10	8.1	20.200
71904	19.90	7.6	27.500
71905	16.50	11.6	28.100
71906	8.70	18	26.700
72001	18.70	7.1	25.800
72002	23.70	7.4	31.100
72003	11.80	8.7	20.500
72004	19.40	7.9	27.300
72005	15.70	12.4	28.100
72006	8.40	19	27.400
7201	9.30	9.2	18.500
7202	18.10	11.6	29.700
7203	6.50	16.6	23.100
7204	7	17.2	24.200
7205	7	17	24.000
7206	5.70	21.1	26.800
7207	11.80	9.7	21.500
72101	27.40	8.7	36.100
72102	27.40	9	36.400
72103	22.60	10.7	33.300
72104	26.30	9.3	35.600
72105	24.40	12.5	36.900

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
72106	14.80	18.6	33.400
7301	9.80	8.6	18.400
7302	19.70	10.6	30.300
7303	7.80	14.5	22.300
7304	8.10	15.8	23.900
7305	8.30	14.2	22.500
7306	7.20	18.7	25.900
7307	13.00	11	24.000
7401	12.70	8.3	21.000
7402	24.20	8.7	32.900
7403	10.50	10.5	21.000
7404	10.80	11	21.800
7405	12.00	15.7	27.700
7406	9.30	16.3	25.600
7407	9.90	13.7	23.600
7501	13.40	7.3	20.700
7502	23.50	9.2	32.700
7503	11.50	9.7	21.200
7504	11.80	10.6	22.400
7505	11.90	10.2	22.100
7506	10.20	15.2	25.400
7507	9.40	17.7	27.100
7601	13.40	7.9	21.300
7602	23.30	9.7	33.000
7603	11.40	10.1	21.500
7604	11.90	10.7	22.600
7605	11.70	10.4	22.100
7606	10.20	16.3	26.500
7607	5.10	20.7	25.800
7701	14.00	7.6	21.600
7702	24.60	9.2	33.800

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
7703	12.20	9.5	21.700
7704	12.70	10.3	23.000
7705	12.60	9.5	22.100
7706	11.00	15.2	26.200
7707	4	20.4	24.400
7801	13.70	7.7	21.400
7802	24.20	9.5	33.700
7803	11.90	9.8	21.700
7804	12.50	10.4	22.900
7805	10.10	12.8	22.900
7806	10.80	16.1	26.900
7807	3.70	21.4	25.100
7901	15.00	7.5	22.500
7902	25.40	9.1	34.500
7903	12.40	9.6	22.000
7904	13.40	10.3	23.700
7905	14.50	7.8	22.300
7906	11.60	14.9	26.500
7907	4.30	20.5	24.800
All other dwellings	24.40	7.3	31.700

(c) 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. 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 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 bank (No. 1)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 2)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 3)	-	-	light-emitting diode	connected to lift call button	no

Central energy systems	Type	Specification
Lift bank (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 22 number of levels from the bottom of the lift shaft to the top of the lift shaft: 23 number of lifts: 3 lift load capacity: >= 1001 kg but <= 1500kg
Central hot water system (No. 2)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm)

3. Commitments for multi-dwelling housing

(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.	✓	✓	✓
(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.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✓	✓	✓
(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".		✓	
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		✓	

4. Commitments for single dwelling houses

(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.	✓	✓	✓
(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.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	✓	✓	✓
(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".		✓	
(iii) Thermal Performance and Materials	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.			

(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.		✓	

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

(a) Buildings 'Other'

(i) Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) 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 "Floor types", "External wall types", "Internal wall types", "Ceiling and roof types", "Frames" and "Glazing" tables below.			✓
(b) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all specifications included in the tables below.		✓	
(c) The applicant must construct the floors, walls, roof, ceiling and roof, windows, glazed doors and skylights of the development in accordance with the specifications listed in the tables below. In the case of glazing, a 5% variance from the area values listed in the "Frames" and "Glazing" tables is permitted.	✓	✓	✓
(d) The applicant must show through receipts that the materials purchased for construction are consistent with the specifications listed in the below tables.			✓

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
concrete slab on ground, frame:	5000	-	none
suspended floor above enclosed subfloor, frame: suspended concrete slab	15700	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	off form concrete,frame:no frame	2000	none	-

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
-	-	-	-

Reinforcement concrete frames/columns

Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
-	-	-

Ceiling and roof types

Ceiling and roof type	Area (m ²)	Roof Insulation	Ceiling Insulation
-	-	-	

Glazing types

Frame types

Single glazing (m ²)	Double glazing (m ²)	Triple glazing (m ²)	Aluminium frames (m ²)	Timber frames (m ²)	uPVC frames (m ²)	Steel frames (m ²)	Composite frames (m 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

(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
Undercover car park area	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	zoned switching with motion sensor	no
Garbage rooms	ventilation exhaust only	-	light-emitting diode	motion sensors	no
Mec vent plant or service rooms	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	no
Outdoor Communal area	no mechanical ventilation	-	light-emitting diode	daylight sensors	no
Post room/storage/FCR	ventilation supply only	time clock or BMS controlled	light-emitting diode	manual on / manual off	no
Bike Space	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	no
Ground floor lobby	ventilation supply only	time clock or BMS controlled	light-emitting diode	daylight sensors	no
Hallway/lobby type	ventilation supply only	time clock or BMS controlled	light-emitting diode	zoned switching with motion sensor	no
Mec vent Hallway/lobby type	ventilation supply only	time clock or BMS controlled	light-emitting diode	zoned switching with motion sensor	no

Central energy systems	Type	Specification
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 30 peak kW
Other	-	-

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).