



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
D	2502067	Update NatHERS and BASIX assessment for new/additional units	HE/SC/LP/CO/SS	26/09/2025
E	2602610	Update NatHERS and BASIX assessment on Phase 1 only (Buildings 1, 2 & 3)	SC/MF/LP	17/07/2026

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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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 16/07/2026.

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 63% 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 BASIX limitations on the total number of dwellings per BASIX certificate; Phase 1 has split into two BASIX certificates – one for Building 1 and 2, one for Building 3. 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 ($\pm 5\%$)

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

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

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 ($\pm 5\%$)

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

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

Glazing upgrade 2

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

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

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

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

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

Ceiling insulation upgrade: R4.5 ceiling insulation as per the results table

Ceiling insulation upgrade: R5.0 ceiling insulation to units 62101 and 62205 only

External Colour

Light ($SA < 0.475$)

Ceiling penetrations

Sealed LED downlights at a maximum of one every 5.0m²

Ceiling fans

900mm ceiling fans in all bedrooms and living area

Upgrade: 1200mm ceiling fan as per the results table

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)

External wall insulation upgrade: R2.5 insulation as per the results table

External wall insulation upgrade: R2.7 insulation to units 62101 and 62205 only

Any concrete columns within the external wall envelope are assumed to have 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 slab on ground

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

External floor insulation upgrade: R3.5 floor insulation as per the results table

Floor coverings

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

External shading

Shading as per stamped documentation

BASIX water inclusions

Minimum score 40/40

Landscape - Indigenous and low water use species

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

Central rainwater storage

Phase 1 – Tank size: 10,000 L Building 1-2, no BASIX requirements for Building 3 (refer to note regarding splitting BASIX for phase 1)

Collecting from 1200m² roof area

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

Phase 2 – Tank size: 5,000 L

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

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

Phase 3 – Tank size: no BASIX requirements

Common area swimming pools and spas

Pool volume: 135 kL

Pool shaded: no

Fire sprinkler test water

Sprinkler systems nominated in BASIX: one per parking area, one per residential building

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

Fixtures within common areas

Toilets: 4.0 star

Taps: 5.0 star

Fixtures and appliances within units *(note: all fixtures and appliances noted are to be installed for OC, not tenant provided)*

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

Clothes washers: none specified

Dishwashers: 4 WELS star

BASIX Energy Inclusions

Minimum score 63/63

Hot water system

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

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

Lift motors

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

Common area swimming pools and spas

Pool heating source: Gas

Pool pump: controlled by timer

Common areas – ventilation and lighting

Lighting control system / BMS : no

Common Area	Ventilation	Lighting
Car park areas	Supply and exhaust air with a carbon monoxide monitor & VSD fan	LEDs with zoned switching and motion sensors
Waste rooms	Exhaust air only, running continuously	LEDs with motion sensors
Plant / service rooms	Supply and exhaust air, thermostatically controlled	LEDs with manual on / off switch
Plant / service rooms (naturally ventilated)	No mechanical ventilation	LEDs with motion sensors
Bicycle storage rooms	Supply air only, time clock or BMS controlled	LEDs with motion sensors
Communal rooms	Supply air only, time clock or BMS controlled	LEDs with daylight sensor and motion sensors
Communal outdoor area	No mechanical ventilation	LEDs with daylight sensors

Common Area	Ventilation	Lighting
Communal bathrooms	Exhaust air only, time clock or BMS controlled	LEDs with manual on / manual off switch
Mail / storage	Supply air only, interlocked to light	LEDs with motion sensors
Ground floor entry lobbies	Supply air only, time clock or BMS controlled	LEDs with daylight sensors
Hallways	Supply air only, time clock or BMS controlled	LEDs with zoned switching and motion sensors
Lifts		LEDs connected to lift call button

Dwelling ventilation

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

Dwelling cooling and heating

All units to have individual, single phase, ducted, 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;

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

Dwelling appliances and other efficiency measures *(note: appliances noted are to be installed for OC, not tenant provided)*

Gas cooktop & electric oven

Dishwashers: 4.0 star

Clothes dryers: 8.0 star

Crescent Parklands
Phase 1: Buildings 1, 2 and 3

Certificate # HR-D3AYXW-01 and HR-CL19IR-01

Accreditation # HERA10033

Thermal performance specifications								
Unit Number as per Arch. Dwg	Unit Number as per NatHERS model	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	101.4	0	25.4	10.8	6.2	
202	P202	3	101.3	0	11.3	12.6	7.6	
203	P203	3	101.3	0	11	11.1	7.9	
204	P204	2	69.3	0	13.5	19.3	6.7	Glazing upgrade 1 and 1200mm ceiling fans
205	P205	2	79.3	0	10.7	10.8	7.9	
206	P206	2	79.3	0	11.9	12	7.6	
207	P207	2	76.5	0	3.3	15	8.3	Glazing upgrade 2, R2.5 external walls and 1200mm ceiling fans
208	P208	3	90.4	0	11.7	9.6	7.9	
301	P301	3	101.4	0	28.8	7.5	6.2	
302	P302	3	101.3	0	11.1	11.3	7.8	
303	P303	3	101.3	0	12.6	8.3	8	
304	P304	2	69.3	0	18	19.4	6.1	
305	P305	2	79.3	0	11.6	9.6	7.9	
306	P306	2	79.3	0	12.8	10.1	7.8	
307	P307	2	76.5	0	3.1	15	8.3	Glazing upgrade 2, R2.5 external walls and 1200mm ceiling fans
308	P308	3	90.4	0	12	8.9	8	
401	P401	3	101.4	0	27.8	8.7	6.2	
402	P402	3	101.3	0	10.9	10.6	7.9	
403	P403	3	101.3	0	13	9.2	7.8	
404	P404	2	69.3	0	18.7	18.3	6.1	1200mm ceiling fans
405	P405	2	79.3	0	12.8	9.5	7.8	
406	P406	2	79.3	0	13.8	10.2	7.6	
407	P407	2	76.5	0	4.5	19.5	7.6	Glazing upgrade 1, R2.5 external walls and 1200mm ceiling fans
408	P408	3	90.4	0	12.7	8.9	7.9	
501	P501	3	101.4	0	29.2	7.8	6.1	
502	P502	3	101.3	0	12.1	11.2	7.7	
503	P503	3	101.3	0	13.6	8.2	7.9	
504	P504	2	69.3	0	19.3	18	6.1	1200mm ceiling fans
505	P505	2	79.3	0	13.2	9.3	7.8	
506	P506	2	79.3	0	14.3	10	7.6	
507	P507	2	76.5	0	3.4	10.8	8.7	Glazing upgrade 2, R2.5 external walls and 1200mm ceiling fans
508	P508	3	90.4	0	13.1	8.9	7.9	

Crescent Parklands
Phase 1: Buildings 1, 2 and 3

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Accreditation # HERA10033

Thermal performance specifications

Unit Number as per Arch. Dwg	Unit Number as per NatHERS model	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
601	P601	3	101.4	0	27.3	8.5	6.3	
602	P602	3	101.3	0	11.5	10.7	7.8	
603	P603	3	101.3	0	13.6	8.9	7.8	
604	P604	2	69.3	0	19.4	17.6	6.1	1200mm ceiling fans
605	P605	2	79.3	0	13.5	9.2	7.8	
606	P606	2	79.3	0	14.6	10	7.6	
607	P607	2	76.5	0	3.5	11.2	8.7	Glazing upgrade 2, R2.5 external walls and 1200mm ceiling fans
608	P608	3	90.4	0	11.1	7.9	8.2	
701	P701	3	100.3	0	29.1	8.7	6	Glazing upgrade 2, R2.7 external walls, R4.5 ceiling insulation and 1200mm ceiling fans
702	P702	3	101.3	0	24	13.8	6	
703	P703	3	101.3	0	25.1	10.4	6.3	
704	P704	2	69.3	0	19.6	12.9	6.7	1200mm ceiling fans
705	P705	2	79.3	0	13.9	9.1	7.8	
706	P706	2	79.3	0	15.1	9.8	7.5	
707	P707	2	76.5	0	3.7	10.5	8.7	Glazing upgrade 2, R2.5 external walls and 1200mm ceiling fans
708	P708	3	90.4	0	13.9	8.9	7.8	
Building 1								
801	1801	2	78.9	0	26.1	6.9	6.6	
802	1802	2	83.9	0	6.7	7.5	8.7	
803	1803	2	83.9	0	7.2	8.5	8.5	
804	1804	2	78.9	0	30.3	5.7	6.2	
805	1805	2	73.4	0	18.4	5.4	7.6	
806	1806	1	50.2	0	22.1	7.1	7.1	
807	1807	1	49.4	0	14.5	7.1	7.9	
808	1808	2	78.7	0	25.4	3.2	7.1	
809	1809	2	81.7	0	32.9	2.5	6.3	
810	1810	3	103.3	0	30	3.9	6.5	
901	1901	2	78.9	0	15.3	7.9	7.7	
902	1902	2	83.9	0	4.3	11	8.6	
903	1903	2	83.9	0	4.2	8.7	8.9	
904	1904	2	78.9	0	19.3	6.7	7.4	
905	1905	2	73.4	0	8.6	7.4	8.4	
906	1906	1	50.2	0	10.2	8.5	8.2	

Crescent Parklands
Phase 1: Buildings 1, 2 and 3

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Thermal performance specifications

Unit Number as per Arch. Dwg	Unit Number as per NatHERS model	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
907	1907	1	49.4	0	3.8	7.2	9.2	
908	1908	2	79.5	0	16	3.8	8.1	
909	1909	2	80.5	0	19.2	2.6	7.9	
910	1910	1	53.2	0	3.7	8.4	8.9	
911	1911	3	103.3	0	12.2	7	8.2	
1001	11001	2	78.9	0	15.4	7.7	7.7	
1002	11002	2	83.9	0	4.1	8.5	8.9	
1003	11003	2	83.9	0	4.2	8.7	8.9	
1004	11004	2	78.9	0	19.4	6.7	7.4	
1005	11005	2	73.4	0	8.7	7.4	8.4	
1006	11006	1	50.2	0	9.9	10.8	8	
1007	11007	1	49.4	0	3.9	7.4	9.1	
1008	11008	2	79.5	0	16.1	3.4	8.2	
1009	11009	2	80.5	0	19.2	3.2	7.8	
1010	11010	1	53.2	0	18.3	5.2	7.7	
1011	11011	3	103.3	0	12.3	7	8.2	
1101	11101	2	78.9	0	15.6	7.7	7.7	
1102	11102	2	83.9	0	4.3	8.8	8.9	
1103	11103	2	83.9	0	4.3	8.7	8.9	
1104	11104	2	78.9	0	19.7	6.9	7.3	
1105	11105	2	73.4	0	9	7.5	8.4	
1106	11106	1	50.2	0	10.1	10.4	8	
1107	11107	1	49.4	0	4	7.6	9.1	
1108	11108	2	79.5	0	16.4	3.7	8.1	
1109	11109	2	80.5	0	19.5	3	7.8	
1110	11110	1	53.2	0	4.7	8.7	8.8	
1111	11111	3	103.3	0	12.6	6.9	8.2	
1201	11201	2	78.9	0	15.7	7.6	7.7	
1202	11202	2	83.9	0	4.4	9	8.8	
1203	11203	2	83.9	0	4.5	8.8	8.8	
1204	11204	2	78.9	0	19.9	6.8	7.3	
1205	11205	2	73.4	0	9.1	7.4	8.4	
1206	11206	1	50.2	0	10.2	10.5	8	
1207	11207	1	49.4	0	4.1	7.1	9.1	
1208	11208	2	79.5	0	16.5	3.4	8.1	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1209	11209	2	80.5	0	19.6	3.2	7.8	
1210	11210	1	53.2	0	4.8	8.8	8.8	
1211	11211	3	103.3	0	12.7	6.9	8.1	
1301	11301	2	78.9	0	15.9	7.2	7.7	
1302	11302	2	83.9	0	4.4	9.3	8.8	
1303	11303	2	83.9	0	4.5	8.7	8.9	
1304	11304	2	78.9	0	20	6.8	7.3	
1305	11305	2	73.4	0	9.2	7.6	8.4	
1306	11306	1	50.2	0	10.4	9.5	8.1	
1307	11307	1	49.4	0	4.2	7.5	9	
1308	11308	2	79.5	0	16.6	3.4	8.1	
1309	11309	2	80.5	0	19.7	3.2	7.8	
1310	11310	1	53.2	0	4.8	8.8	8.8	
1311	11311	3	103.3	0	12.8	6.9	8.1	
1401	11401	2	78.9	0	16	7.5	7.7	
1402	11402	2	83.9	0	4.4	9.2	8.8	
1403	11403	2	83.9	0	4.6	8.7	8.8	
1404	11404	2	78.9	0	20.2	6.8	7.3	
1405	11405	2	73.4	0	9.4	7.7	8.4	
1406	11406	1	50.2	0	10.5	9.6	8.1	
1407	11407	1	49.4	0	4.1	6.6	9.2	
1408	11408	2	79.5	0	16.7	3.8	8	
1409	11409	2	80.5	0	19.9	3	7.8	
1410	11410	1	53.2	0	4.9	8.5	8.8	
1411	11411	3	103.3	0	12.9	6.9	8.1	
1501	11501	2	78.9	0	16.3	7.2	7.7	
1502	11502	2	83.9	0	4.6	9.1	8.8	
1503	11503	2	83.9	0	4.7	8.6	8.8	
1504	11504	2	78.9	0	20.5	6.8	7.3	
1505	11505	2	73.4	0	9.6	8	8.3	
1506	11506	1	50.2	0	10.8	9.2	8.1	
1507	11507	1	49.4	0	4.4	7.6	9	
1508	11508	2	79.5	0	17	3.6	8	
1509	11509	2	80.5	0	20.1	3.1	7.7	
1510	11510	1	53.2	0	5	8.6	8.8	

Crescent Parklands
Phase 1: Buildings 1, 2 and 3

Certificate # HR-D3AYXW-01 and HR-CL19IR-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number as per Arch. Dwg	Unit Number as per NatHERS model	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1511	11511	3	103.3	0	13.2	6.8	8.1	
1601	11601	2	78.9	0	16.5	7.4	7.6	
1602	11602	2	83.9	0	4.7	8.7	8.8	
1603	11603	2	83.9	0	4.7	8.7	8.8	
1604	11604	2	78.9	0	20.7	7.1	7.2	
1605	11605	2	73.4	0	9.8	7.8	8.3	
1606	11606	1	50.2	0	10.9	9.5	8.1	
1607	11607	1	49.4	0	4.5	7.6	8.9	
1608	11608	2	79.5	0	17.2	3.6	8	
1609	11609	2	80.5	0	20.3	3.1	7.7	
1610	11610	1	53.2	0	5.2	8.7	8.8	
1611	11611	3	103.3	0	13.5	7.1	8	
1701	11701	2	78.9	0	16.7	7.3	7.6	
1702	11702	2	83.9	0	4.6	11.1	8.5	
1703	11703	2	83.9	0	5	8.3	8.8	
1704	11704	2	78.9	0	20.8	6.8	7.2	
1705	11705	2	73.4	0	9.8	7.3	8.4	
1706	11706	1	50.2	0	15	8.2	7.7	
1707	11707	1	49.4	0	9.4	8.2	8.3	
1708	11708	2	79.5	0	17.6	3.7	7.9	
1709	11709	2	80.5	0	20.7	3.3	7.6	
1710	11710	1	53.2	0	5.3	8.6	8.8	
1711	11711	3	103.3	0	13.2	6.6	8.1	
1801	11801	2	78.9	0	17	7.6	7.6	
1802	11802	2	83.9	0	4.8	9	8.8	
1803	11803	2	83.9	0	5.2	8.4	8.8	
1804	11804	2	78.9	0	21	6.7	7.2	
1805	11805	2	73.4	0	10.1	7.9	8.3	
1806	11806	1	50.2	0	16.2	8.2	7.6	
1807	11807	1	49.4	0	9.5	7.5	8.4	
1808	11808	2	79.5	0	17.6	3.7	7.9	
1809	11809	2	80.5	0	20.7	3.3	7.6	
1810	11810	1	53.2	0	5.3	7.6	8.9	
1811	11811	3	103.3	0	13	9.8	7.8	
1901	11901	2	77.9	0	16.4	7.5	7.6	

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Thermal performance specifications

Unit Number as per Arch. Dwg	Unit Number as per NatHERS model	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1902	11902	3	105.1	0	6.1	11.4	8.3	
1903	11903	3	105.1	0	6.1	11.4	8.4	
1904	11904	2	77.9	0	20.6	8	7.1	
1905	11905	2	77.9	0	20.2	11.9	6.7	
1906	11906	2	75.2	0	19.1	11.1	6.9	
1907	11907	2	79.5	0	16.2	4	8.1	
1908	11908	2	80.5	0	20.7	3.3	7.6	
1909	11909	1	53.2	0	5.4	8.4	8.8	
1910	11910	2	77.9	0	20.4	6.6	7.3	
2001	12001	2	77.9	0	16.8	7	7.7	
2002	12002	3	105.1	0	6.1	11.6	8.3	
2003	12003	3	105.1	0	6.1	10.8	8.4	
2004	12004	2	77.9	0	20.7	7.9	7.1	
2005	12005	2	77.9	0	19.8	11.6	6.8	
2006	12006	2	75.2	0	19.2	11.1	6.9	
2007	12007	2	79.5	0	18.4	3.8	7.9	
2008	12008	2	80.5	0	20.8	3.3	7.6	
2009	12009	1	53.2	0	5.4	8.4	8.8	
2010	12010	2	77.9	0	21	6.1	7.3	
2101	12101	2	77.9	0	16.7	7.2	7.6	
2102	12102	3	105.1	0	6	11.7	8.3	
2103	12103	3	105.1	0	6.1	10.8	8.4	
2104	12104	2	77.9	0	20.7	8	7.1	
2105	12105	2	77.9	0	19.8	11.5	6.8	
2106	12106	2	75.2	0	19.2	10.9	6.9	
2107	12107	2	79.5	0	18.3	3.8	7.9	
2108	12108	2	80.5	0	20.7	3.3	7.6	
2109	12109	1	53.2	0	5.4	8.4	8.8	
2110	12110	2	77.9	0	20.9	6	7.3	
2201	12201	2	77.9	0	16.8	7.4	7.6	
2202	12202	3	105.1	0	6.2	11.4	8.3	
2203	12203	3	105.1	0	6.1	10.6	8.4	
2204	12204	2	77.9	0	20.9	8.1	7.1	
2205	12205	2	77.9	0	20	11.9	6.8	
2206	12206	2	75.2	0	17.7	12.6	6.9	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2207	12207	2	79.5	0	16.7	3.9	8	
2208	12208	2	80.5	0	20.7	3.3	7.6	
2209	12209	1	53.2	0	5.5	8.4	8.8	
2210	12210	2	77.9	0	21.1	6	7.3	
2301	12301	2	77.9	0	16.9	7.1	7.6	
2302	12302	3	105.1	0	6.3	11.6	8.3	
2303	12303	3	105.1	0	6.3	10.8	8.4	
2304	12304	2	77.9	0	21	7.9	7.1	
2305	12305	2	77.9	0	20.2	11.7	6.8	
2306	12306	2	75.2	0	19.4	10.9	6.9	
2307	12307	2	79.5	0	18.6	4	7.8	
2308	12308	2	80.5	0	20.7	3.4	7.6	
2309	12309	1	53.2	0	5.6	8.2	8.8	
2310	12310	2	77.9	0	21.1	6.2	7.3	
2401	12401	2	77.9	0	17.1	7.5	7.6	
2402	12402	3	105.1	0	6.3	11.6	8.3	
2403	12403	3	105.1	0	6.4	10.7	8.4	
2404	12404	2	77.9	0	21.2	8.1	7.1	
2405	12405	2	77.9	0	20.3	11.7	6.8	
2406	12406	2	75.2	0	19.5	10.8	6.9	
2407	12407	2	79.5	0	18.6	3.9	7.8	
2408	12408	2	80.5	0	20.7	3.5	7.6	
2409	12409	1	53.2	0	5.7	8	8.8	
2410	12410	2	77.9	0	21.2	6.1	7.3	
2501	12501	2	77.9	0	17.1	7.3	7.6	
2502	12502	3	105.1	0	6.4	11.5	8.3	
2503	12503	3	105.1	0	6.3	10.6	8.4	
2504	12504	2	77.9	0	21.4	8	7.1	
2505	12505	2	77.9	0	20.4	11.6	6.7	
2506	12506	2	75.2	0	19.6	10.8	6.9	
2507	12507	2	79.5	0	16.9	4.1	8	
2508	12508	2	80.5	0	20.7	3.6	7.6	
2509	12509	1	53.2	0	5.7	8	8.8	
2510	12510	2	77.9	0	21.3	6.1	7.3	
2601	12601	2	77.9	0	17.2	7.2	7.6	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2602	12602	3	105.1	0	6.4	11.7	8.3	
2603	12603	3	105.1	0	6.5	11	8.3	
2604	12604	2	77.9	0	21.5	7.9	7.1	
2605	12605	2	77.9	0	20.6	11.7	6.7	
2606	12606	2	75.2	0	19.7	10.8	6.9	
2607	12607	2	79.5	0	18.6	4.1	7.8	
2608	12608	2	80.5	0	20.7	3.7	7.6	
2609	12609	1	53.2	0	5.8	8.2	8.8	
2610	12610	2	77.9	0	21.3	6.5	7.2	
2701	12701	2	77.9	0	16.8	7.2	7.6	
2702	12702	3	105.1	0	6.4	11	8.4	
2703	12703	3	105.1	0	6.5	10.7	8.4	
2704	12704	2	77.9	0	21.6	7.7	7.1	
2705	12705	2	77.9	0	20.6	10.5	6.9	
2706	12706	2	75.2	0	18.3	6.8	7.4	
2707	12707	2	79.5	0	16.6	4.1	8	
2708	12708	2	80.5	0	20.4	3.6	7.6	
2709	12709	1	53.2	0	6	8.7	8.7	
2710	12710	2	77.9	0	22.6	7.2	7	
2801	12801	2	77.9	0	16.9	7.4	7.6	
2802	12802	3	105.1	0	6.4	11.5	8.3	
2803	12803	3	105.1	0	6.6	11	8.3	
2804	12804	2	77.9	0	21.8	7.7	7.1	
2805	12805	2	77.9	0	20.8	10.5	6.8	
2806	12806	2	75.2	0	18.5	6.6	7.4	
2807	12807	2	79.5	0	19.1	4.1	7.7	
2808	12808	2	80.5	0	20.5	3.8	7.6	
2809	12809	1	53.2	0	5.9	8.4	8.7	
2810	12810	2	77.9	0	22.3	7.4	7	
2901	12901	2	77.9	0	16.9	7.5	7.6	
2902	12902	3	105.1	0	6.5	11.6	8.3	
2903	12903	3	105.1	0	6.6	10.7	8.4	
2904	12904	2	77.9	0	21.9	7.8	7	
2905	12905	2	77.9	0	20.9	10.4	6.8	
2906	12906	2	75.2	0	18.5	6.7	7.4	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2907	12907	2	79.5	0	19.2	4.1	7.7	
2908	12908	2	80.5	0	20	3.8	7.7	
2909	12909	1	53.2	0	6	8.6	8.7	
2910	12910	2	77.9	0	22.4	8.1	6.9	
3001	13001	2	77.9	0	16.8	7.9	7.5	
3002	13002	3	105.1	0	6.5	11.3	8.3	
3003	13003	3	105.1	0	6.5	10.8	8.4	
3004	13004	2	77.9	0	21.9	7.8	7	
3005	13005	2	77.9	0	20.9	10.7	6.8	
3006	13006	2	75.2	0	18.7	6.6	7.4	
3007	13007	2	79.5	0	17.1	4.2	7.9	
3008	13008	2	80.5	0	19.5	3.8	7.7	
3009	13009	1	53.2	0	6	8.5	8.7	
3010	13010	2	77.9	0	22.2	8.3	6.9	
3101	13101	2	77.9	0	16.9	8.5	7.4	
3102	13102	3	105.1	0	6.5	11.4	8.3	
3103	13103	3	105.1	0	6.7	10.6	8.4	
3104	13104	2	77.9	0	22.1	7.8	7	
3105	13105	2	77.9	0	20.8	10.5	6.8	
3106	13106	2	75.2	0	18.9	6.6	7.4	
3107	13107	2	79.5	0	19.3	4.1	7.7	
3108	13108	2	80.5	0	19.3	3.9	7.7	
3109	13109	1	53.2	0	6.1	8.6	8.7	
3110	13110	2	77.9	0	22.1	10	6.7	
3201	13201	2	77.9	0	16.9	8.8	7.4	
3202	13202	3	105.1	0	6.4	11.3	8.3	
3203	13203	3	105.1	0	6.7	10.8	8.3	
3204	13204	2	77.9	0	22.2	7.7	7	
3205	13205	2	77.9	0	21.2	10.4	6.8	
3206	13206	2	75.2	0	18.6	6.3	7.5	
3207	13207	2	79.5	0	17.2	4.2	7.9	
3208	13208	2	80.5	0	18.8	4	7.8	
3209	13209	1	53.2	0	6.2	8.5	8.7	
3210	13210	2	77.9	0	22	11.7	6.5	
3301	13301	2	77.9	0	16.8	9.3	7.4	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
3302	13302	3	105.1	0	6.3	11.7	8.3	
3303	13303	3	105.1	0	6.7	10.6	8.4	
3304	13304	2	77.9	0	22.2	7.7	7	
3305	13305	2	77.9	0	21.2	10.7	6.8	
3306	13306	2	75.2	0	18.7	6.2	7.5	
3307	13307	2	79.5	0	19.5	4.1	7.7	
3308	13308	2	80.5	0	17.7	4	7.9	
3309	13309	1	53.2	0	6.2	8.6	8.7	
3310	13310	2	77.9	0	21.8	12.6	6.4	
3401	13401	2	77.9	0	17.7	10.3	7.2	
3402	13402	3	105.1	0	6.8	11.9	8.2	
3403	13403	3	105.1	0	7.3	11.2	8.3	
3404	13404	2	77.9	0	23.3	7.7	6.9	
3405	13405	2	77.9	0	21.4	10.8	6.7	
3406	13406	2	75.2	0	27	8.3	6.3	
3407	13407	2	79.5	0	27.7	5.8	6.6	
3408	13408	2	80.5	0	27	5.1	6.7	
3409	13409	1	53.2	0	13.4	9.7	7.7	
3410	13410	2	77.9	0	21.8	13.9	6.3	
3501	13501	4	136	0	15.6	8.7	7.6	
3502	13502	4	136	0	16.3	8.1	7.6	
3503	13503	3	122.5	0	17.9	19.9	6	
3504	13504	3	122.5	0	13.1	15.4	7.1	
3601	13601	4	136	0	27.2	10.4	6.1	
3602	13602	4	136	0	26.8	9.4	6.2	
3603	13603	3	122.5	0	20.1	17.4	6.1	R2.5 insulation to external wall, R4.5 insulation to ceiling, Glazing upgrade 1, 1200mm ceiling fan
3604	13604	3	122.5	0	19.5	18.3	6	Glazing upgrade 1
Building 2								
801	2801	2	77	0	33.5	2.7	6.2	R3.5 insulation to floor above carpark , R2.5 insulation to external wall
802	2802	1	51	0	30.4	6.7	6.1	R3.5 insulation to floor above carpark
803	2803	1	49.3	0	29.9	4.1	6.5	R3.5 insulation to floor above carpark
804	2804	2	74	0	24.6	13	6.1	R2.5 insulation to external wall

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
805	2805	2	79.3	0	15.6	8.7	7.6	
806	2806	2	79.3	0	18.3	8.6	7.3	
807	2807	2	76.5	0	10	16.7	7.3	
808	2808	3	91	0	5.5	5.3	9.2	
809	2809	2	84	0	31.1	3.6	6.4	
901	2901	2	77	0	23.6	4	7.2	
902	2902	1	51	0	28.3	7.2	6.3	
903	2903	1	49.3	0	23.4	5.5	7.1	
904	2904	2	74	0	24.9	13	6	R2.5 insulation to external wall
905	2905	2	79.3	0	15.9	8.7	7.6	
906	2906	2	79.3	0	18.6	8.8	7.3	
907	2907	2	76.5	0	9.1	17.5	7.3	
908	2908	3	91	0	4.8	5.6	9.3	
909	2909	2	84	0	20.6	4.7	7.4	
1001	21001	2	77	0	23.3	5.7	7.1	
1002	21002	1	51	0	28.5	7.9	6.2	
1003	21003	1	49.3	0	23.5	6	7	
1004	21004	2	74	0	25.1	12.8	6	R2.5 insulation to external wall, 1200mm ceiling fan
1005	21005	2	79.3	0	15.9	8.6	7.6	
1006	21006	2	79.3	0	18.8	8.8	7.2	
1007	21007	2	76.5	0	9.3	17.9	7.3	
1008	21008	3	91	0	4.9	6.2	9.1	
1009	21009	2	84	0	20.8	4.8	7.4	
1101	21101	2	77	0	24.1	4.1	7.2	
1102	21102	1	51	0	28.8	7.9	6.2	
1103	21103	1	49.3	0	23.8	6	7	
1104	21104	2	74	0	23.1	11.5	6.4	Glazing upgrade 1
1105	21105	2	79.3	0	16.3	8.7	7.5	
1106	21106	2	79.3	0	19.1	8.8	7.2	
1107	21107	2	76.5	0	9.5	17.5	7.3	
1108	21108	3	91	0	5	6.1	9.1	
1109	21109	2	84	0	21.1	4.9	7.4	
1201	21201	2	77	0	23.8	5.5	7.1	
1202	21202	1	51	0	28.9	7.8	6.2	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1203	21203	1	49.3	0	24	6	7	
1204	21204	2	74	0	23.2	11.3	6.4	Glazing upgrade 1
1205	21205	2	79.3	0	18.2	8.4	7.3	
1206	21206	2	79.3	0	21.3	9.4	6.9	
1207	21207	2	76.5	0	10.3	16.2	7.4	
1208	21208	3	91	0	5.1	6	9.1	
1209	21209	2	84	0	21.2	4.6	7.4	
1301	21301	2	77	0	23.9	5.5	7.1	
1302	21302	1	51	0	29.1	7.8	6.1	
1303	21303	1	49.3	0	24.1	6	6.9	
1304	21304	2	74	0	23.3	11.3	6.4	Glazing upgrade 1
1305	21305	2	79.3	0	16.5	8.4	7.5	
1306	21306	2	79.3	0	19.5	8.7	7.2	
1307	21307	2	76.5	0	9.7	17.6	7.3	
1308	21308	3	91	0	5.2	6.1	9.1	
1309	21309	2	84	0	21.4	4.9	7.4	
1401	21401	2	77	0	24.1	5.5	7	
1402	21402	1	51	0	29.3	7.7	6.1	
1403	21403	1	49.3	0	24.2	6	6.9	
1404	21404	2	74	0	23.4	11.4	6.4	Glazing upgrade 1
1405	21405	2	79.3	0	16.7	8.3	7.5	
1406	21406	2	79.3	0	19.6	9.2	7.1	
1407	21407	2	76.5	0	9.8	17.7	7.3	
1408	21408	3	91	0	5.3	6	9.1	
1409	21409	2	84	0	21.5	4.7	7.4	
1501	21501	2	77	0	24.4	5.5	7	
1502	21502	1	51	0	29.6	7.8	6.1	
1503	21503	1	49.3	0	24.5	6	6.9	
1504	21504	2	74	0	23.7	11.1	6.4	Glazing upgrade 1
1505	21505	2	79.3	0	17	8.5	7.4	
1506	21506	2	79.3	0	20	9.1	7.1	
1507	21507	2	76.5	0	10	17.1	7.3	
1508	21508	3	91	0	5.4	6.1	9.1	
1509	21509	2	84	0	21.9	5.2	7.3	
1601	21601	2	77	0	24.6	5.5	6.9	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1602	21602	1	51	0	29.8	7.8	6.1	
1603	21603	1	49.3	0	24.7	6	6.9	
1604	21604	2	74	0	23.9	11.1	6.4	Glazing upgrade 1
1605	21605	2	79.3	0	17.1	8.6	7.4	
1606	21606	2	79.3	0	20.1	9.3	7.1	
1607	21607	2	76.5	0	10.1	17.4	7.2	
1608	21608	3	91	0	5.6	6.3	9	
1609	21609	2	84	0	21.1	4.6	7.4	
1701	21701	2	77	0	27	5.2	6.7	
1702	21702	1	51	0	29	7.3	6.2	R2.5 insulation to external wall
1703	21703	1	49.3	0	24.7	5.8	6.9	
1704	21704	2	74	0	25.4	9.6	6.4	Glazing upgrade 1
1705	21705	2	79.3	0	19.2	8.2	7.3	
1706	21706	2	79.3	0	22.3	8.4	6.9	
1707	21707	2	76.5	0	10.8	15.8	7.3	
1708	21708	3	91	0	7.9	5.5	8.8	
1709	21709	2	84	0	23.9	4.8	7.1	
1801	21801	2	77	0	24.7	5.4	6.9	
1802	21802	1	51	0	29.9	7.3	6.1	
1803	21803	1	49.3	0	24.8	5.7	6.9	
1804	21804	2	74	0	24	11	6.4	Glazing upgrade 1
1805	21805	2	79.3	0	17.5	8.4	7.4	
1806	21806	2	79.3	0	20.4	9.2	7	
1807	21807	2	76.5	0	10.4	17.2	7.2	
1808	21808	3	91	0	6	5.8	9	
1809	21809	2	84	0	22.3	5	7.3	
1901	21901	2	77	0	24.9	5.5	6.9	
1902	21902	1	51	0	30	7.4	6.1	
1903	21903	1	49.3	0	24.9	5.8	6.9	
1904	21904	2	74	0	24.1	11	6.4	Glazing upgrade 1
1905	21905	2	79.3	0	17.7	8.5	7.4	
1906	21906	2	79.3	0	20.6	9.3	7	
1907	21907	2	76.5	0	10.5	16.6	7.3	
1908	21908	3	91	0	6.1	5.9	9	
1909	21909	2	84	0	22.4	5	7.3	

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Accreditation # HERA10033

Thermal performance specifications

Unit Number as per Arch. Dwg	Unit Number as per NatHERS model	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2001	22001	2	77	0	25	5.5	6.9	
2002	22002	1	51	0	30	7.3	6.1	
2003	22003	1	49.3	0	25	5.8	6.9	
2004	22004	2	74	0	24.2	11	6.3	Glazing upgrade 1
2005	22005	2	79.3	0	18.1	8.7	7.3	
2006	22006	2	79.3	0	21.1	8.7	7	
2007	22007	2	76.5	0	10.7	15.4	7.4	
2008	22008	3	91	0	6.2	6	8.9	
2009	22009	2	84	0	22.5	5.1	7.2	
2101	22101	2	77	0	24.9	5.6	6.9	
2102	22102	1	51	0	29.9	7.3	6.1	
2103	22103	1	49.3	0	24.9	5.8	6.9	
2104	22104	2	74	0	24.2	10.9	6.4	Glazing upgrade 1
2105	22105	2	79.3	0	18.1	8.7	7.3	
2106	22106	2	79.3	0	21.1	8.9	7	
2107	22107	2	76.5	0	10.8	15.3	7.4	
2108	22108	3	91	0	6.2	6	8.9	
2109	22109	2	84	0	22.5	5.2	7.2	
2201	22201	2	77	0	27	6	6.6	
2202	22202	1	51	0	29.1	7	6.2	R2.5 insulation to external wall
2203	22203	1	49.3	0	24.9	5.9	6.9	
2204	22204	2	74	0	25.8	9.6	6.3	Glazing upgrade 1
2205	22205	2	79.3	0	20.1	8.1	7.2	
2206	22206	2	79.3	0	23.4	8	6.8	
2207	22207	2	76.5	0	11.4	14	7.4	
2208	22208	3	91	0	8.3	5.5	8.8	
2209	22209	2	84	0	24.6	5	7	
2301	22301	2	77	0	25.1	5.9	6.9	
2302	22302	1	51	0	29.9	7.6	6.1	
2303	22303	1	49.3	0	24.9	5.9	6.9	
2304	22304	2	74	0	24.4	10.6	6.4	Glazing upgrade 1
2305	22305	2	79.3	0	18.5	8.7	7.3	
2306	22306	2	79.3	0	21.5	8.7	6.9	
2307	22307	2	76.5	0	10.9	15.2	7.4	
2308	22308	3	91	0	6.4	6	8.9	

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Unit Number as per Arch. Dwg	Unit Number as per NatHERS model	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2309	22309	2	84	0	22.7	5.1	7.2	
2401	22401	2	77	0	25.2	6.4	6.8	
2402	22402	1	51	0	29.9	7.8	6	
2403	22403	1	49.3	0	24.8	5.9	6.9	
2404	22404	2	74	0	24.5	10.6	6.4	Glazing upgrade 1
2405	22405	2	79.3	0	18.6	8.5	7.3	
2406	22406	2	79.3	0	21.6	8.7	6.9	
2407	22407	2	76.5	0	11.2	15.7	7.3	
2408	22408	3	91	0	6.4	6	8.9	
2409	22409	2	84	0	22.8	5.3	7.2	
2501	22501	2	77	0	25.2	6.9	6.7	
2502	22502	1	51	0	29.8	8.1	6	
2503	22503	1	49.3	0	24.8	5.9	6.9	
2504	22504	2	74	0	24.7	10.7	6.3	Glazing upgrade 1
2505	22505	2	79.3	0	18.7	8.8	7.3	
2506	22506	2	79.3	0	21.8	8.7	6.9	
2507	22507	2	76.5	0	11.3	15.6	7.3	
2508	22508	3	91	0	6.6	5.9	8.9	
2509	22509	2	84	0	23	5.5	7.2	
2601	22601	2	77	0	25.3	7.7	6.6	
2602	22602	1	51	0	23.7	7.5	6.9	Glazing 1 upgrade
2603	22603	1	49.3	0	24.6	5.7	6.9	
2604	22604	2	74	0	24.9	10.4	6.3	Glazing 1 upgrade
2605	22605	2	79.3	0	18.8	8.5	7.3	
2606	22606	2	79.3	0	21.9	8.8	6.9	
2607	22607	2	76.5	0	11.4	15.5	7.3	
2608	22608	3	91	0	6.5	5.9	8.9	
2609	22609	2	84	0	22.9	5.6	7.2	
2701	22701	2	77	0	25.4	7.7	6.6	
2702	22702	1	51	0	27.7	7.4	6.4	Glazing 1 upgrade
2703	22703	1	49.3	0	24.7	5.8	6.9	
2704	22704	2	74	0	27	9.3	6.2	Glazing 1 upgrade
2705	22705	2	79.3	0	23.1	7.8	6.9	
2706	22706	2	79.3	0	24.7	8.1	6.6	
2707	22707	2	76.5	0	12.1	14	7.4	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2708	22708	3	91	0	9	5.6	8.7	
2709	22709	2	84	0	25.1	5.4	6.9	
2801	22801	2	76.9	0	25.1	8.7	6.5	
2802	22802	2	79.3	0	25.8	5.3	6.9	Glazing 1 upgrade
2803	22803	3	92.5	0	26.1	9.8	6.3	R2.5 insulation to external wall
2804	22804	2	79.3	0	19.4	8.4	7.2	
2805	22805	2	79.3	0	22.5	8.7	6.9	
2806	22806	2	76.5	0	11.7	14.9	7.3	
2807	22807	3	91	0	6.7	6	8.9	
2808	22808	2	84	0	23	5.9	7.1	
2901	22901	2	76.9	0	25.1	9.5	6.4	
2902	22902	2	79.3	0	25.6	5.7	6.8	Glazing 1 upgrade
2903	22903	3	92.5	0	26.2	10	6.2	R2.5 insulation to external wall
2904	22904	2	79.3	0	19.6	8.4	7.2	
2905	22905	2	79.3	0	22.6	8.7	6.8	
2906	22906	2	76.5	0	11.8	14.5	7.4	
2907	22907	3	91	0	6.8	6	8.9	
2908	22908	2	84	0	23	6.2	7.1	
3001	23001	2	76.9	0	24.6	10.2	6.4	
3002	23002	2	79.3	0	25.4	5.8	6.8	Glazing 1 upgrade
3003	23003	3	92.5	0	26.3	10	6.2	R2.5 insulation to external wall
3004	23004	2	79.3	0	19.7	8.4	7.2	
3005	23005	2	79.3	0	22.8	8.7	6.8	
3006	23006	2	76.5	0	11.6	14.7	7.4	
3007	23007	3	91	0	6.8	6	8.9	
3008	23008	2	84	0	22.4	6.2	7.1	
3101	23101	2	76.9	0	24.2	10.3	6.4	
3102	23102	2	79.3	0	25.2	5.7	6.9	Glazing 1 upgrade
3103	23103	3	92.5	0	26.4	9.9	6.2	R2.5 insulation to external wall
3104	23104	2	79.3	0	19.7	8.4	7.2	
3105	23105	2	79.3	0	22.8	8.7	6.8	
3106	23106	2	76.5	0	12.1	15.5	7.2	
3107	23107	3	91	0	6.8	6	8.9	
3108	23108	2	84	0	22	6.7	7.1	
3201	23201	2	76.9	0	22.9	10.5	6.6	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
3202	23202	2	79.3	0	25	5.8	6.9	Glazing 1 upgrade
3203	23203	3	92.5	0	26.5	9.9	6.2	R2.5 insulation to external wall
3204	23204	2	79.3	0	19.9	8.4	7.2	
3205	23205	2	79.3	0	23	8.7	6.8	
3206	23206	2	76.5	0	11.8	15.3	7.3	
3207	23207	3	91	0	6.9	6.1	8.9	
3208	23208	2	84	0	21.5	7.1	7.1	
3301	23301	2	76.9	0	21.4	11	6.7	
3302	23302	2	79.3	0	24.8	5.9	6.9	Glazing 1 upgrade
3303	23303	3	92.5	0	26.7	9.8	6.2	Glazing 1 upgrade, R2.5 insulation to external wall
3304	23304	2	79.3	0	22.6	9	6.8	Glazing upgrade 1
3305	23305	2	79.3	0	25.2	9	6.4	Glazing upgrade 1
3306	23306	2	76.5	0	16.7	15	6.8	Glazing upgrade 1
3307	23307	3	91	0	6.9	6.1	8.9	
3308	23308	2	84	0	21	7.2	7.2	
3401	23401	2	76.9	0	20.9	11.1	6.8	
3402	23402	2	79.3	0	25.6	5.5	6.9	Glazing 1 upgrade
3403	23403	3	91	0	10.4	7	8.4	
3404	23404	2	84	0	15.5	6.2	7.9	Glazing 1 upgrade
3501	23501	3	91	0	17.9	8.3	7.4	Glazing 1 upgrade
3502	23502	2	84	0	22.4	8.3	6.9	Glazing 1 upgrade
3503	23503	2	76.9	0	24.4	11.9	6.2	Glazing 1 upgrade
3504	23504	2	79.3	0	30.8	6.9	6	Glazing 1 upgrade, R2.5 insulation to external wall
Building 3								
801	3801	2	75.4	0	7.7	2.8	9.2	
802	3802	2	73.3	0	14.7	6.7	7.9	
803	3803	2	73.3	0	22.2	6.1	7.2	
804	3804	2	75.4	0	22.9	3.4	7.4	
805	3805	1	58.5	0	32.7	4.5	6.1	R3.5 insulation to floor above carpark
806	3806	1	53.5	0	30.2	5.4	6.3	R3.5 insulation to floor above carpark, Glazing upgrade 1GL 1
807	3807	1	55.2	0	30.1	4.6	6.4	
808	3808	2	74.7	0	22.3	4.3	7.3	
809	3809	1	58.5	0	25.7	4	7	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
901	3901	2	75.4	0	5	4.2	9.4	
902	3902	2	73.3	0	8.9	6.9	8.5	
903	3903	2	73.3	0	13.6	8.9	7.8	
904	3904	2	75.4	0	22	4.7	7.3	
905	3905	1	58.5	0	27.5	5.6	6.6	
906	3906	1	53.5	0	29.7	8	6	
907	3907	1	55.2	0	17.8	6.6	7.6	
908	3908	2	74.7	0	10.1	9.1	8.2	
909	3909	2	75.4	0	4.2	9.4	8.8	
1001	31001	2	75.4	0	5.2	3.7	9.5	
1002	31002	2	73.3	0	8.6	5.5	8.7	
1003	31003	2	73.3	0	13	7.3	8.1	
1004	31004	2	75.4	0	20.5	3.9	7.6	
1005	31005	1	58.5	0	27.1	5.1	6.7	
1006	31006	1	53.5	0	30.6	7	6.1	
1007	31007	1	55.2	0	17.4	4.1	7.9	
1008	31008	2	74.7	0	9.7	6	8.5	
1009	31009	2	75.4	0	3.2	8.3	9.1	
1101	31101	2	75.4	0	5.3	4.3	9.4	
1102	31102	2	73.3	0	9	6.7	8.5	
1103	31103	2	73.3	0	14	9	7.8	
1104	31104	2	75.4	0	22.5	4.6	7.3	
1105	31105	1	58.5	0	28.1	5.6	6.5	
1106	31106	1	53.5	0	27.7	7.9	6.3	R2.5 insulation to external wall
1107	31107	1	55.2	0	18.2	6.5	7.5	
1108	31108	2	74.7	0	8.6	9.1	8.3	
1109	31109	2	75.4	0	5.6	5.1	9.2	
1201	31201	2	75.4	0	5.5	3.7	9.4	
1202	31202	2	73.3	0	8.9	5.6	8.7	
1203	31203	2	73.3	0	13.4	7.2	8	
1204	31204	2	75.4	0	21	4	7.5	
1205	31205	1	58.5	0	27.6	4.9	6.7	
1206	31206	1	53.5	0	28.2	7.5	6.3	R2.5 insulation to external wall
1207	31207	1	55.2	0	17.8	4.1	7.9	
1208	31208	2	74.7	0	9.5	6.1	8.6	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1209	31209	2	75.4	0	5.6	4.2	9.4	
1301	31301	2	75.4	0	5.4	4.2	9.4	
1302	31302	2	73.3	0	9.2	6.7	8.5	
1303	31303	2	73.3	0	14.3	8.9	7.7	
1304	31304	2	75.4	0	22.8	4.5	7.3	
1305	31305	1	58.5	0	28.4	5.7	6.4	
1306	31306	1	53.5	0	27.9	8.5	6.2	R2.5 insulation to external wall
1307	31307	1	55.2	0	18.5	6.2	7.5	
1308	31308	2	74.7	0	10.1	9	8.2	
1309	31309	2	75.4	0	5.8	5.1	9.2	
1401	31401	2	75.4	0	5.7	3.7	9.4	
1402	31402	2	73.3	0	9.1	5.5	8.7	
1403	31403	2	73.3	0	13.7	7.3	8	
1404	31404	2	75.4	0	21.3	3.9	7.4	
1405	31405	1	58.5	0	27.9	4.9	6.6	
1406	31406	1	53.5	0	28.5	7.2	6.3	R2.5 insulation to external wall
1407	31407	1	55.2	0	18	4.2	7.8	
1408	31408	2	74.7	0	9.4	6	8.6	
1409	31409	2	75.4	0	5.8	4.1	9.3	
1501	31501	2	75.4	0	5.7	4.3	9.3	
1502	31502	2	73.3	0	9.5	6.7	8.4	
1503	31503	2	73.3	0	14.7	8.8	7.7	
1504	31504	2	75.4	0	23.3	4.5	7.2	
1505	31505	1	58.5	0	28.9	5.5	6.4	
1506	31506	1	53.5	0	27.9	8.4	6.2	R2.5 insulation to external wall
1507	31507	1	55.2	0	18.8	6.3	7.4	
1508	31508	2	74.7	0	10.9	9	8.1	
1509	31509	2	75.4	0	6	5	9.2	
1601	31601	2	75.4	0	6	3.8	9.4	
1602	31602	2	73.3	0	9.4	5.4	8.7	
1603	31603	2	73.3	0	14.1	7.3	7.9	
1604	31604	2	75.4	0	21.8	4	7.4	
1605	31605	1	58.5	0	28.5	4.8	6.6	
1606	31606	1	53.5	0	28.9	7.2	6.2	R2.5 insulation to external wall
1607	31607	1	55.2	0	18.5	4.5	7.8	

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			Con.	Uncon.	Heat	Cool (Sens & Lat)		
1608	31608	2	74.7	0	10.7	5.9	8.4	
1609	31609	2	75.4	0	6	4.3	9.3	
1701	31701	2	75.4	0	5.8	4.3	9.3	
1702	31702	2	73.3	0	9.7	6.7	8.4	
1703	31703	2	73.3	0	14.9	8.4	7.7	
1704	31704	2	75.4	0	23.6	4.5	7.2	
1705	31705	1	58.5	0	29.2	5.3	6.4	
1706	31706	1	53.5	0	29	7.2	6.2	R2.5 insulation to external wall
1707	31707	1	55.2	0	19.4	5.7	7.4	
1708	31708	2	74.7	0	10.7	9	8.1	
1709	31709	2	75.4	0	4.1	8.9	8.9	
1801	31801	2	75.4	0	6.1	3.8	9.4	
1802	31802	2	73.3	0	9.7	5.4	8.6	
1803	31803	2	73.3	0	13.7	6.7	8.1	
1804	31804	2	75.4	0	22	3.8	7.4	
1805	31805	1	58.5	0	28.9	4.8	6.5	
1806	31806	3	97.1	0	25.6	6.6	6.7	
1807	31807	3	99.9	0	8.7	5.7	8.7	
1808	31808	2	75.4	0	3.6	8	9.1	
1901	31901	2	75.4	0	6	4.4	9.3	
1902	31902	2	73.3	0	10	6.8	8.4	
1903	31903	2	73.3	0	14.5	8.5	7.8	
1904	31904	2	75.4	0	23.9	4.5	7.2	
1905	31905	1	58.5	0	29.2	5.6	6.4	
1906	31906	3	97.1	0	25.8	8.5	6.4	
1907	31907	3	99.9	0	9	9.9	8.2	
1908	31908	2	75.4	0	6.3	4.9	9.1	
2001	32001	2	75.4	0	6.3	3.8	9.3	
2002	32002	2	73.3	0	9.8	5.4	8.6	
2003	32003	2	73.3	0	13.9	6.4	8.1	
2004	32004	2	75.4	0	22.3	3.8	7.4	
2005	32005	1	58.5	0	28.8	4.9	6.5	
2006	32006	3	97.1	0	24	7.2	6.9	
2007	32007	3	99.9	0	8.9	5.5	8.7	
2008	32008	2	75.4	0	6.1	4.1	9.3	

Crescent Parklands
Phase 1: Buildings 1, 2 and 3

Certificate # HR-D3AYXW-01 and HR-CL19IR-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number as per Arch. Dwg	Unit Number as per NatHERS model	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2101	32101	2	75.4	0	6	4.4	9.3	
2102	32102	2	73.3	0	10.1	6.8	8.4	
2103	32103	2	73.3	0	14.6	7.9	7.8	
2104	32104	2	75.4	0	24.1	4.6	7.1	
2105	32105	1	58.5	0	29.4	5.5	6.4	
2106	32106	3	97.1	0	25.9	8.4	6.4	
2107	32107	3	99.9	0	9	10.1	8.2	
2108	32108	2	75.4	0	6.4	4.9	9.1	
2201	32201	2	75.4	0	6.3	3.8	9.3	
2202	32202	2	73.3	0	9.9	5.4	8.6	
2203	32203	2	73.3	0	13.9	6.5	8.1	
2204	32204	2	75.4	0	22.5	3.8	7.4	
2205	32205	1	58.5	0	28.9	4.8	6.5	
2206	32206	3	97.1	0	24.1	6.9	6.9	
2207	32207	3	99.9	0	9	5.4	8.7	
2208	32208	2	75.4	0	6.2	4.1	9.3	
2301	32301	2	75.4	0	6.2	4.5	9.2	
2302	32302	2	73.3	0	10.2	6.9	8.4	
2303	32303	2	73.3	0	14.9	7.8	7.8	
2304	32304	2	75.4	0	24.4	4.6	7.1	
2305	32305	1	58.5	0	29.7	5.5	6.3	
2306	32306	3	97.1	0	26.2	8.6	6.4	
2307	32307	3	99.9	0	9.2	10.1	8.2	
2308	32308	2	75.4	0	6.5	4.9	9.1	
2401	32401	2	75.4	0	6.4	3.9	9.3	
2402	32402	2	73.3	0	10	5.5	8.6	
2403	32403	2	73.3	0	14.2	6.5	8	
2404	32404	2	75.4	0	22.8	3.9	7.3	
2405	32405	1	58.5	0	29.3	4.8	6.4	
2406	32406	3	97.1	0	24.5	7.1	6.8	
2407	32407	3	99.9	0	9.1	5.7	8.6	
2408	32408	2	75.4	0	6.3	4.1	9.3	
2501	32501	2	75.4	0	6.2	4.4	9.2	
2502	32502	2	73.3	0	10.4	7.2	8.3	
2503	32503	2	73.3	0	15.1	7.8	7.8	

Crescent Parklands
Phase 1: Buildings 1, 2 and 3

Certificate # HR-D3AYXW-01 and HR-CL19IR-01

Accreditation # HERA10033

Thermal performance specifications

Unit Number as per Arch. Dwg	Unit Number as per NatHERS model	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
			Con.	Uncon.	Heat	Cool (Sens & Lat)		
2504	32504	2	75.4	0	24.7	4.6	7.1	
2505	32505	1	58.5	0	30	5.6	6.3	
2506	32506	3	97.1	0	26.5	8.7	6.3	
2507	32507	3	99.9	0	9.3	10	8.2	
2508	32508	2	75.4	0	6.7	4.9	9.1	
2601	32601	2	75.4	0	16.3	6	7.8	
2602	32602	2	73.3	0	18.6	6.7	7.4	
2603	32603	2	73.3	0	23.4	7.8	6.8	
2604	32604	2	75.4	0	29.1	5.1	6.4	Glazing upgrade 1
2605	32605	1	58.5	0	31.1	5.7	6.1	Glazing upgrade 1, R4.5 ceiling insulation, R2.5 external wall insulation, 1200mm ceiling fans
2606	32606	3	97.1	0	29.7	7.7	6.1	Glazing upgrade 1
2607	32607	3	99.9	0	20	8.1	7.2	
2608	32608	2	75.4	0	16.8	6.6	7.7	

Crescent Parklands
Stage 2: Buildings 4 and 5

Certificate #HR-UDYI6E-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
Building 4							
4101	3	100.2	0	3.5	5.4	9.5	
4102	3	88.6	0	5.8	13.8	8.1	
4103	1	50.1	0	12	15.2	7.3	
4104	1	50.5	0	7.7	20.5	7.2	Glass upgrade 1
4105	2	73.5	0	11.7	11.1	7.8	
4201	3	100.2	0	4.3	5.2	9.4	
4202	3	88.6	0	4.3	18.5	7.9	Glass upgrade 1
4203	1	50.1	0	11.4	19.7	6.9	
4204	1	50.5	0	5	16.6	7.9	Glass upgrade 2
4205	2	73.5	0	14.5	8.5	7.7	
4301	3	100.2	0	6.4	4.9	9.1	
4302	3	88.6	0	6.6	18.2	7.5	
4303	1	50.1	0	15.5	13.9	7.1	
4304	1	50.5	0	13.5	19.7	6.6	
4305	2	73.5	0	18.3	7.9	7.4	
4401	2	74.6	0	21.7	6.3	7.2	
4402	2	84.6	0	3.7	6.1	9.4	
4403	3	88.6	0	6.4	18.1	7.6	
4404	1	50.1	0	16.5	13.6	6.9	
4405	1	50.5	0	14.2	19.4	6.6	
4406	2	73.5	0	15.1	7.6	7.8	
4407	2	76.8	0	28.4	6.6	6.4	Glass upgrade 2 and R2.5 to external walls and R3.5 to subfloor
4501	2	74.6	0	13.1	6.9	8.1	
4502	2	84.6	0	3.7	5.8	9.4	
4503	3	88.6	0	6.6	18.2	7.5	
4504	1	50.1	0	17	13.7	6.9	
4505	1	50.5	0	14.7	19.2	6.5	
4506	2	73.5	0	13.9	7.5	7.9	
4507	2	79.7	0	26.3	10.9	6.1	Glass upgrade 1 and R2.5 to external walls
4508	2	74.6	0	16.1	8.4	7.6	

Crescent Parklands
Stage 2: Buildings 4 and 5

Certificate #HR-UDYI6E-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
4601	2	74.6	0	13.5	6.6	8.1	
4602	2	84.6	0	3.9	5.7	9.4	
4603	3	88.6	0	6.8	18.2	7.4	
4604	1	50.1	0	17.6	13	6.9	
4605	1	50.5	0	15.2	19.1	6.4	
4606	2	73.5	0	14.3	7.4	7.9	
4607	2	79.7	0	25	11.6	6.2	Glass upgrade 1 and R2.5 to external walls
4608	2	74.6	0	11	8.3	8.2	
4701	2	74.6	0	14	6.9	8	
4702	2	84.6	0	4.1	5.7	9.4	
4703	3	88.6	0	7	17.9	7.5	
4704	1	50.1	0	18.1	13	6.9	
4705	1	50.5	0	15.7	19.2	6.4	
4706	2	73.5	0	14.7	7.2	7.9	
4707	2	79.7	0	25.4	11	6.2	Glass upgrade 1 and R2.5 to external walls
4708	2	74.6	0	11.4	8.3	8.1	
4801	2	74.6	0	14.3	6.9	7.9	
4802	2	84.6	0	4.2	5.6	9.4	
4803	3	88.6	0	7.2	17.6	7.5	
4804	1	50.1	0	18.5	13	6.8	
4805	1	50.5	0	16.1	18.6	6.4	
4806	2	73.5	0	15	7.2	7.8	
4807	2	79.7	0	25.7	10.8	6.2	Glass upgrade 1 and R2.5 to external walls
4808	2	74.6	0	11.6	8.1	8.1	
4901	2	74.6	0	14.7	6.7	7.9	
4902	2	84.6	0	4.3	5.5	9.4	
4903	3	88.6	0	7.5	17.6	7.4	
4904	1	50.1	0	19	13.3	6.7	
4905	1	50.5	0	16.6	18.6	6.4	
4906	2	73.5	0	15.5	7.2	7.8	
4907	2	79.7	0	26	10.6	6.2	Glass upgrade 1 and R2.5 to external walls
4908	2	74.6	0	12.1	8.4	8.1	

Crescent Parklands
Stage 2: Buildings 4 and 5

Certificate #HR-UDYI6E-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
41001	2	74.6	0	16.7	6.8	7.7	
41002	2	84.6	0	5.3	5.4	9.2	
41003	3	88.6	0	8.8	16.1	7.5	
41004	1	50.1	0	21.5	13.2	6.4	
41005	1	50.5	0	18.9	16.7	6.3	
41006	2	73.5	0	17.4	7	7.6	
41007	2	79.7	0	28	9.6	6	Glass upgrade 1, R2.5 to external walls and 1200mm ceiling fans
41008	2	74.6	0	13.9	7.8	7.9	
41101	2	74.6	0	14.7	8.6	7.7	
41102	2	84.6	0	5	5.3	9.3	
41103	3	88.6	0	9.1	15.3	7.6	
41104	1	50.1	0	23.9	13.7	6.1	
41105	1	50.5	0	18.5	12.6	6.9	Glass upgrade 1
41106	2	73.5	0	19.9	6.6	7.4	
41107	2	79.7	0	26.5	10	6.2	Glass upgrade 1 and R2.5 to external walls
41108	2	74.6	0	12.9	10.6	7.7	
41201	2	74.6	0	14.7	9.7	7.6	
41202	2	84.6	0	5.1	5.4	9.3	
41203	3	88.6	0	9.2	15.3	7.6	
41204	1	50.1	0	18.3	12.3	6.9	Glass upgrade 1
41205	1	50.5	0	18.6	12.4	6.9	Glass upgrade 1
41206	2	73.5	0	20.1	6.7	7.3	
41207	2	79.7	0	26.5	10.2	6.2	Glass upgrade 1 and R2.5 to external walls
41208	2	74.6	0	13	10.2	7.7	
41301	2	74.6	0	14.9	10.6	7.4	
41302	2	84.6	0	5.3	5.5	9.2	
41303	3	88.6	0	9.3	15.3	7.5	
41304	1	50.1	0	24.4	13.6	6	
41305	1	50.5	0	19.3	12.6	6.8	Glass upgrade 1
41306	2	73.5	0	20.3	6.6	7.3	
41307	2	79.7	0	26.6	10.2	6.2	Glass upgrade 1 and R2.5 to external walls

Crescent Parklands
Stage 2: Buildings 4 and 5

Certificate #HR-UDYI6E-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
41308	2	74.6	0	13.3	10.1	7.7	
41401	2	74.6	0	14.8	10.7	7.4	
41402	2	84.6	0	5.3	5.6	9.2	
41403	3	88.6	0	9.4	15.6	7.4	
41404	1	50.1	0	24.5	13.5	6	
41405	1	50.5	0	19	12.7	6.8	Glass upgrade 1
41406	2	73.5	0	20.4	6.5	7.3	
41407	2	79.7	0	26.5	10	6.2	Glass upgrade 1 and R2.5 to external walls
41408	2	74.6	0	13.4	10.2	7.7	
41501	2	74.6	0	14.7	13.1	7.2	
41502	2	84.6	0	5.3	5.5	9.2	
41503	3	88.6	0	9.5	15.8	7.4	
41504	1	50.1	0	18	11.7	7	Glass upgrade 1
41505	1	50.5	0	19.1	12.8	6.8	Glass upgrade 1
41506	2	73.5	0	20.6	6.6	7.3	
41507	2	79.7	0	26.3	10.1	6.2	Glass upgrade 1 and R2.5 to external walls
41508	2	74.6	0	13.2	10	7.7	
41601	2	74.6	0	14.6	13.9	7.2	
41602	2	84.6	0	5.4	5.5	9.2	
41603	3	88.6	0	9.5	16	7.4	
41604	1	50.1	0	18.1	11.6	7	Glass upgrade 1
41605	1	50.5	0	19.2	12.9	6.7	Glass upgrade 1
41606	2	73.5	0	20.7	6.6	7.3	
41607	2	79.7	0	27.9	10	6	Glass upgrade 1
41608	2	74.6	0	13.2	10.5	7.7	
41701	2	74.6	0	14.5	18.3	6.6	
41702	2	84.6	0	5.5	5.5	9.2	
41703	3	88.6	0	9.6	16.2	7.4	
41704	1	50.1	0	17.3	11.5	7.1	Glass upgrade 1 and R2.5 to external walls
41705	1	50.5	0	19.3	12.8	6.7	Glass upgrade 1
41706	2	73.5	0	20.9	6.5	7.3	
41707	2	79.7	0	26.3	10	6.2	Glass upgrade 1

Crescent Parklands
Stage 2: Buildings 4 and 5

Certificate #HR-UDYI6E-01 Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
41708	2	74.6	0	13.1	10.5	7.7	
41801	2	74.6	0	14.8	13.5	7.2	Glass upgrade 2 and R4.5 ceiling insulation
41802	2	84.6	0	15	7	7.9	
41803	3	88.6	0	18.7	18.6	6.1	
41804	1	50.1	0	25	12.1	6.1	Glass upgrade 1 and R2.5 to external walls
41805	1	50.5	0	20.5	12.7	6.6	Glass upgrade 2 and R4.5 ceiling insulation
41806	2	73.5	0	24.1	8	6.7	Glass upgrade 1 and R4.5 ceiling insulation
41807	2	79.7	0	27.2	9.7	6.1	Glass upgrade 2, R2.5 external wall insulation and R4.5 ceiling insulation
41808	2	74.6	0	18.2	13.6	6.8	Glass upgrade 1

Crescent Parklands
Stage 2: Buildings 4 and 5

Certificate #HR-UDYI6E-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
Building 5							
5001	4	130.1	0	14.7	14.3	7.1	
5002	4	138	0	3	10.7	8.8	
5003	4	137.9	0	3.4	7.1	9.3	
5004	4	126.2	0	11.6	9.5	7.9	
5101	2	88.4	0	2.1	5.4	9.7	
5201	1	58.7	5.3	3.4	8.1	9.1	
5202	2	75.8	0	0.4	6.4	9.9	
5203	2	80.1	0	1.4	6	9.8	
5204	2	80.1	0	1.7	6.1	9.7	
5205	2	75.8	0	0.3	6	9.9	
5206	1	63.2	0	6.8	7.7	8.7	
5301	1	58.7	5.3	5.6	7.4	8.9	
5302	2	75.8	0	0.8	5.7	9.9	
5303	2	80.1	0	2.6	5.4	9.7	
5304	2	80.1	0	2.9	5.4	9.6	
5305	2	75.8	0	0.7	5.2	10	
5306	1	63.2	0	8.9	7.3	8.4	
5401	3	104.1	0	31.6	5.8	6.1	Glass upgrade 1 and R2.5 to external walls
5402	2	73.9	0	6.5	7.2	8.8	
5403	2	75.8	0	0.9	5.5	9.9	
5404	2	80.1	0	2.8	5.3	9.6	
5405	2	80.1	0	3.2	5.5	9.6	
5406	2	75.8	0	0.9	5.3	9.9	
5407	2	73.9	0	4.8	4.9	9.4	
5408	3	104.1	0	31.3	5.5	6.2	Glazing upgrade 1
5501	3	104.5	0	28.1	9.2	6.1	
5502	2	73.9	0	6.1	7	8.9	
5503	2	75.8	0	1	5.5	9.9	
5504	2	80.1	0	3	5.3	9.6	
5505	2	80.1	0	3.5	5.3	9.5	
5506	2	75.8	0	0.9	5.3	9.9	

Crescent Parklands
Stage 2: Buildings 4 and 5

Certificate #HR-UDYI6E-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
5507	2	73.9	0	4.1	5	9.4	
5508	3	104.6	0	26.7	8.7	6.3	
5601	3	104.5	0	28.7	8.9	6	
5602	2	73.9	0	6.3	7	8.8	
5603	2	75.8	0	1.1	5.3	9.9	
5604	2	80.1	0	3.2	5.2	9.6	
5605	2	80.1	0	3.7	5.3	9.5	
5606	2	75.8	0	1	5.1	9.9	
5607	2	73.9	0	4.4	5	9.4	
5608	3	104.6	0	27.3	8.8	6.2	
5701	3	104.5	0	22.6	7.2	7	Glazing upgrade 1
5702	2	73.9	0	6.4	6.9	8.8	
5703	2	75.8	0	1.1	5.2	9.9	
5704	2	80.1	0	3.4	5.2	9.6	
5705	2	80.1	0	3.8	5.2	9.5	
5706	2	75.8	0	1	5	10	
5707	2	73.9	0	4.5	5.2	9.4	
5708	3	104.6	0	27.7	8.7	6.2	
5801	3	104.5	0	23.1	7.3	6.9	Glazing upgrade 1
5802	2	73.9	0	6.8	6.8	8.8	
5803	2	75.8	0	1.2	5.1	9.9	
5804	2	80.1	0	3.5	5.1	9.6	
5805	2	80.1	0	4	5.1	9.4	
5806	2	75.8	0	1.1	4.9	10	
5807	2	73.9	0	4.8	5.4	9.3	
5808	3	104.6	0	28.4	8.8	6.1	
5901	3	104.5	0	23.4	7.2	6.9	Glazing upgrade 1
5902	2	73.9	0	7	7	8.8	
5903	2	75.8	0	1.2	5.1	9.9	
5904	2	80.1	0	3.7	5	9.5	
5905	2	80.1	0	4.1	5.1	9.4	
5906	2	75.8	0	1.2	4.9	9.9	

Crescent Parklands
Stage 2: Buildings 4 and 5

Certificate #HR-UDYI6E-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
5907	2	73.9	0	4.9	5.6	9.3	
5908	3	104.6	0	28.8	8.8	6.1	
51001	3	104.5	0	23.8	7.3	6.9	Glazing upgrade 1
51002	2	73.9	0	7.2	6.7	8.8	
51003	2	75.8	0	1.3	5.2	9.9	
51004	2	80.1	0	3.9	5	9.5	
51005	2	80.1	0	4.3	5.1	9.4	
51006	2	75.8	0	1.3	5	9.9	
51007	2	73.9	0	5.1	5.8	9.2	
51008	3	104.6	0	29.2	8.8	6	
51101	3	104.5	0	24.9	6.9	6.8	Glazing upgrade 1
51102	2	73.9	0	8.4	6.1	8.7	
51103	2	75.8	0	1.8	4.5	9.9	
51104	2	80.1	0	4.4	4.7	9.4	
51105	2	80.1	0	5	4.9	9.4	
51106	2	75.8	0	1.6	4.3	10	
51107	2	73.9	0	5.6	5.9	9.1	
51108	3	104.6	0	23.9	6.8	6.9	Glazing upgrade 1
51201	3	104.5	0	25.3	6.9	6.7	Glazing upgrade 1
51202	2	73.9	0	8.7	6.1	8.7	
51203	2	75.8	0	1.8	4.4	9.9	
51204	2	80.1	0	4.6	4.6	9.4	
51205	2	80.1	0	5.1	4.7	9.4	
51206	2	75.8	0	1.7	4.3	10	
51207	2	73.9	0	5.6	6	9.1	
51208	3	104.6	0	24.2	6.8	6.9	Glazing upgrade 1
51301	3	104.5	0	25.4	7.1	6.7	Glazing upgrade 1
51302	2	73.9	0	8.7	6	8.7	
51303	2	75.8	0	1.9	4.4	9.9	
51304	2	80.1	0	4.7	4.6	9.4	
51305	2	80.1	0	5.2	4.7	9.3	
51306	2	75.8	0	1.7	4.2	10	

Crescent Parklands
Stage 2: Buildings 4 and 5

Certificate #HR-UDYI6E-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
51307	2	73.9	0	5.7	6.7	8.9	
51308	3	104.6	0	24.2	7	6.8	Glazing upgrade 1
51401	3	104.5	0	27.5	7.2	6.4	Glazing upgrade 1
51402	2	73.9	0	8.9	6.1	8.6	
51403	2	75.8	0	2	4.4	9.9	
51404	2	80.1	0	4.8	4.7	9.4	
51405	2	80.1	0	5.3	4.8	9.3	
51406	2	75.8	0	1.8	4.2	10	
51407	2	73.9	0	5.7	7.4	8.9	
51408	3	104.6	0	24.4	7.4	6.8	Glazing upgrade 1
51501	3	104.5	0	29.2	8	6.1	Glazing upgrade 1
51502	2	73.9	0	9	6.3	8.6	
51503	2	75.8	0	2	4.4	9.9	
51504	2	80.1	0	4.8	4.7	9.4	
51505	2	80.1	0	5.4	4.8	9.3	
51506	2	75.8	0	1.8	4.2	9.9	
51507	2	73.9	0	5.7	8.1	8.8	
51508	3	104.6	0	24.2	7.4	6.8	Glazing upgrade 1
51601	3	104.5	0	29.9	8.1	6	Glass upgrade 1 and R2.5 to external walls
51602	2	73.9	0	9	6.6	8.5	
51603	2	75.8	0	2	4.4	9.9	
51604	2	80.1	0	4.9	4.7	9.4	
51605	2	80.1	0	5.5	4.7	9.3	
51606	2	75.8	0	1.9	4.2	9.9	
51607	2	73.9	0	5.6	8.4	8.8	
51608	3	104.6	0	23.5	7.4	6.9	Glazing upgrade 1
51701	3	104.5	0	26	7.6	6.5	Glazing upgrade 1
51702	2	73.9	0	9.1	6.7	8.5	
51703	2	75.8	0	2.1	4.4	9.9	
51704	2	80.1	0	5	4.6	9.4	
51705	2	80.1	0	5.6	4.8	9.3	
51706	2	75.8	0	2	4.1	9.9	

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Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
51707	2	73.9	0	5.2	8.6	8.8	
51708	3	104.6	0	23	7.4	6.9	Glazing upgrade 1
51801	3	104.5	0	26	7.9	6.5	Glazing upgrade 1
51802	2	73.9	0	9.1	7.1	8.4	
51803	2	75.8	0	2.1	4.3	9.9	
51804	2	80.1	0	5.1	4.6	9.4	
51805	2	80.1	0	5.7	4.7	9.3	
51806	2	75.8	0	1.9	4.1	9.9	
51807	2	73.9	0	4.8	9.2	8.8	
51808	3	104.6	0	29.2	8.6	6	
51901	3	104.5	0	27.8	7	6.4	Glazing upgrade 2, R2.5 external wall insulation and R4.5 ceiling insulation
51902	2	73.9	0	17.2	10.8	7.2	
51903	2	75.8	0	7.8	6.6	8.7	
51904	2	80.1	0	14.6	6.5	7.9	
51905	2	80.1	0	15.9	6.7	7.8	
51906	2	75.8	0	7.7	6.4	8.7	
51907	2	73.9	0	10.6	11.3	7.9	
51908	3	104.6	0	28.6	9.1	6	Glazing upgrade 1 and R4.5 ceiling insulation

Certificate #HR-F7E3KY-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
Building 6							
6001	3	139.5	0	12.2	19.1	6.8	
6002	3	114.4	0	0.7	17.7	8.3	Glazing 1 upgrade
6003	3	121.6	0	0.4	21	7.9	Glazing 1 + ceiling fan upgrade
6004	3	121.6	0	0.4	18.5	7.9	Glazing 1 + ceiling fan upgrade
6005	3	114.4	0	1	19.1	8.1	
6006	3	139.4	0	11.4	10.7	7.9	
6201	2	85	0	9.3	18.7	7.2	Glazing 1 upgrade
6202	1	57.3	0	0.5	5.6	9.9	
6203	2	87.3	0	2.1	5.4	9.8	
6204	2	87.3	0	2.2	6.2	9.6	
6205	1	57.3	0	0.5	7.2	9.7	
6206	3	110	0	13.9	8.9	7.8	
6301	2	85	0	14.6	16.5	6.9	
6302	1	57.3	0	1.1	5.4	9.9	
6303	2	87.3	0	3.4	5.2	9.6	
6304	2	87.3	0	3.7	5.6	9.4	
6305	1	57.3	0	1	6.8	9.7	
6306	3	110	0	14.1	7.8	7.9	
6401	2	78.3	0	33.9	3.6	6.1	Glazing 1 upgrade + R2.5 to external walls
6402	3	101	0	28.6	5	6.5	Glazing 1 upgrade + R2.5 to external walls + R3.5 floor insulation
6403	2	85	0	8.9	16.5	7.4	
6404	1	57.3	0	1.2	5.3	9.9	
6405	2	87.3	0	3.7	5.1	9.5	
6406	2	87.3	0	3.9	5.7	9.4	
6407	1	57.3	0	1.1	5.9	9.8	
6408	2	85.1	0	5.8	8.6	8.7	
6409	3	101	0	29.5	4.1	6.6	Glazing 1 upgrade
6410	2	84.9	0	32.5	2.9	6.3	Glazing upgrade 2 + R2.5 to external walls + R3.5 floor insulation
6501	2	85	0	28.2	4.6	6.6	Glazing 1 upgrade

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Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
6502	3	101	0	31.6	6	6	
6503	2	85	0	9.1	16.6	7.4	
6504	1	57.3	0	1.4	5.4	9.9	
6505	2	87.3	0	3.8	5	9.5	
6506	2	87.3	0	4.1	5.8	9.3	
6507	1	57.3	0	1.2	6.3	9.8	
6508	2	85.1	0	6.4	8.9	8.6	
6509	3	101	0	28.4	4.8	6.6	
6510	2	85	0	28	4.4	6.7	Glazing 1 upgrade
6601	2	85	0	28.8	4.7	6.6	Glazing 1 upgrade
6602	3	101	0	25.7	6.2	6.8	
6603	2	85	0	8.9	17.6	7.3	
6604	1	57.3	0	1.5	5.3	9.9	
6605	2	87.3	0	4	5.1	9.4	
6606	2	87.3	0	4.4	5.7	9.3	
6607	1	57.3	0	1.2	6.2	9.8	
6608	2	85.1	0	6.6	8.6	8.6	
6609	3	101	0	29	4.8	6.5	
6610	2	85	0	28.8	4.5	6.6	Glazing 1 upgrade
6701	2	85	0	29.2	4.6	6.5	Glazing 1 upgrade
6702	3	101	0	26.1	6.1	6.7	
6703	2	85	0	9.3	17.2	7.4	
6704	1	57.3	0	1.6	5.2	9.9	
6705	2	87.3	0	4.2	5.1	9.4	
6706	2	87.3	0	4.5	5.6	9.3	
6707	1	57.3	0	1.3	6.1	9.8	
6708	2	85.1	0	6.7	8.5	8.6	
6709	3	101	0	29.4	4.8	6.4	
6710	2	85	0	29.1	4.6	6.5	Glazing 1 upgrade
6801	2	85	0	29.7	4.6	6.4	Glazing 1 upgrade
6802	3	101	0	27	6.2	6.6	
6803	2	85	0	9.4	16.7	7.4	

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Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
6804	1	57.3	0	1.8	5.2	9.8	
6805	2	87.3	0	4.3	5.1	9.4	
6806	2	87.3	0	4.7	5.5	9.3	
6807	1	57.3	0	1.4	6.2	9.7	
6808	2	85.1	0	7	8.4	8.6	
6809	3	101	0	29.9	4.7	6.4	
6810	2	85	0	29.7	4.5	6.4	Glazing 1 upgrade
6901	2	85	0	29.2	4.7	6.5	Glazing 1 upgrade
6902	3	101	0	26.9	6.3	6.6	
6903	2	85	0	9.6	16.8	7.4	
6904	1	57.3	0	1.9	5.2	9.8	
6905	2	87.3	0	4.4	5.1	9.4	
6906	2	87.3	0	4.9	5.5	9.3	
6907	1	57.3	0	1.5	6.2	9.7	
6908	2	85.1	0	7.2	8.6	8.5	
6909	3	101	0	30.1	4.8	6.4	
6910	2	85	0	29.8	4.5	6.4	Glazing 1 upgrade
61001	2	85	0	31.2	6.2	6.1	Glazing 1 upgrade
61002	3	101	0	24.2	7.7	6.8	Glazing 1 upgrade
61003	2	85	0	15.4	18.6	6.5	
61004	1	57.3	0	4.9	7.9	8.9	
61005	2	87.3	0	8.7	8.2	8.4	
61006	2	87.3	0	9.7	7.7	8.4	
61007	1	57.3	0	4	8.7	8.9	
61008	2	85.1	0	12.8	11.2	7.6	
61009	3	101	0	26.3	6.1	6.7	Glazing 1 upgrade
61010	2	85	0	29	6.6	6.3	Glazing 1 + ceiling fan upgrade + R2.5 to external walls
61101	2	85	0	32.5	4.3	6.1	Glazing 1 upgrade
61102	3	101	0	30	6.1	6.2	
61103	2	85	0	11.6	14.4	7.4	
61104	1	57.3	0	2.7	5.3	9.7	

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Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
61105	2	87.3	0	5.7	4.9	9.2	
61106	2	87.3	0	6.2	5.5	9.1	
61107	1	57.3	0	2.3	6	9.6	
61108	2	85.1	0	8.8	7.6	8.4	
61109	3	101	0	26.4	4.2	6.9	Glazing 1 upgrade
61110	2	85	0	32.5	4.3	6.1	Glazing 1 upgrade
61201	2	85	0	32.7	4.2	6.1	Glazing 1 upgrade
61202	3	101	0	30.1	6.1	6.2	
61203	2	85	0	11.6	14.4	7.4	
61204	1	57.3	0	2.8	5.1	9.7	
61205	2	87.3	0	5.7	4.6	9.3	
61206	2	87.3	0	6.1	5.2	9.1	
61207	1	57.3	0	2.4	5.9	9.6	
61208	2	85.1	0	8.8	7.7	8.4	
61209	3	101	0	26.4	4	6.9	Glazing 1 upgrade
61210	2	85	0	32.7	4.3	6.1	Glazing 1 upgrade
61301	2	85	0	32.8	4.3	6.1	Glazing 1 upgrade
61302	3	101	0	30.2	6.1	6.2	
61303	2	85	0	11.7	14.3	7.4	
61304	1	57.3	0	2.8	5.1	9.7	
61305	2	87.3	0	5.8	4.6	9.3	
61306	2	87.3	0	6.2	5	9.1	
61307	1	57.3	0	2.4	5.9	9.6	
61308	2	85.1	0	8.8	8.3	8.4	
61309	3	101	0	26.4	4.2	6.9	Glazing 1 upgrade
61310	2	85	0	32.8	4.3	6.1	Glazing 1 upgrade
61401	2	85	0	33.1	4.2	6.1	Glazing 1 upgrade
61402	3	101	0	30.6	6.1	6.2	
61403	2	85	0	11.8	14.4	7.4	
61404	1	57.3	0	2.9	5	9.7	
61405	2	87.3	0	6	4.4	9.3	
61406	2	87.3	0	6.4	5.1	9.1	

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Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
61407	1	57.3	0	2.5	5.9	9.6	
61408	2	85.1	0	8.9	8.7	8.3	
61409	3	101	0	26.6	4.3	6.9	Glazing 1 upgrade
61410	2	85	0	33.1	4.3	6.1	Glazing 1 upgrade
61501	2	85	0	33.3	4.2	6.1	Glazing 1 upgrade
61502	3	101	0	30.7	6.1	6.2	
61503	2	85	0	12	14.8	7.3	
61504	1	57.3	0	3	5	9.7	
61505	2	87.3	0	6	4.6	9.2	
61506	2	87.3	0	6.5	5.1	9.1	
61507	1	57.3	0	2.5	5.9	9.6	
61508	2	85.1	0	8.9	9.5	8.3	
61509	3	101	0	26.5	4.5	6.9	Glazing 1 upgrade
61510	2	85	0	33.3	4.2	6.1	Glazing 1 upgrade
61601	2	85	0	33.2	4.2	6.1	Glazing 1 upgrade
61602	3	101	0	30.7	6.1	6.1	
61603	2	85	0	12	14.7	7.3	
61604	1	57.3	0	3	5.1	9.7	
61605	2	87.3	0	5.9	4.5	9.3	
61606	2	87.3	0	6.6	5	9.1	
61607	1	57.3	0	2.6	5.9	9.6	
61608	2	85.1	0	8.8	11.2	8.1	
61609	3	101	0	26.1	4.7	6.9	Glazing 1 upgrade
61610	2	85	0	33.2	4.3	6.1	Glazing 1 upgrade
61701	2	85	0	30.4	5.7	6.2	Glazing 1 upgrade + R2.5 to external walls
61702	3	101	0	24.9	8	6.6	Glazing 1 upgrade
61703	2	57.3	0	16.6	17.6	6.4	
61704	1	87.3	0	5.4	8	8.8	
61705	2	87.3	0	10.2	7.4	8.3	
61706	2	57.3	0	10.7	7.7	8.3	
61707	1	85.1	0	4.6	8.7	8.8	
61708	2	85	0	13.1	16.4	7.1	

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Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
61709	3	101	0	25.5	7.2	6.7	Glazing 1 upgrade
61710	2	85	0	30.4	6.9	6.1	Glazing 1 upgrade + R2.5 to external walls
61801	2	85	0	31.3	4	6.3	Glazing 1 upgrade + R2.5 to external walls
61802	3	101	0	28.3	6.2	6.4	
61803	2	85	0	12.5	13.6	7.4	
61804	1	57.3	0	3.2	4.9	9.7	
61805	2	87.3	0	6.5	4.3	9.2	
61806	2	87.3	0	6.9	4.6	9.1	
61807	1	57.3	0	2.7	5.3	9.7	
61808	2	85.1	0	8.8	13.2	7.9	
61809	3	101	0	27.9	5.8	6.5	
61810	2	85	0	31.1	3.8	6.4	Glazing 1 upgrade + R2.5 to external walls
61901	2	85	0	31.3	3.9	6.4	Glazing 1 upgrade + R2.5 to external walls
61902	3	101	0	28.2	6.2	6.4	
61903	2	85	0	12.4	13.6	7.4	
61904	1	57.3	0	3.1	4.7	9.7	
61905	2	87.3	0	6.4	4.4	9.2	
61906	2	87.3	0	6.8	4.8	9.1	
61907	1	57.3	0	2.7	5.3	9.7	
61908	2	85.1	0	8.4	14.1	7.8	
61909	3	101	0	24.9	6.3	6.9	
61910	2	85	0	31.1	3.8	6.4	Glazing 1 upgrade + R2.5 to external walls
62001	2	85	0	31.4	4.3	6.3	Glazing 1 upgrade + R2.5 to external walls
62002	3	101	0	28.2	6.7	6.4	
62003	2	85	0	12.5	14.1	7.3	
62004	1	57.3	0	3.1	5.1	9.6	
62005	2	87.3	0	8.1	5.2	8.8	
62006	2	87.3	0	6.8	5.3	8.9	
62007	1	57.3	0	2.7	6	9.6	
62008	2	85.1	0	8.2	15.5	7.7	
62009	3	101	0	23.7	6.9	6.9	
62010	2	85	0	31	4.4	6.3	Glazing upgrade 1 and R2.5 external wall insulation

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Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
62101	2	85	0	32.3	4	6.2	Glazing upgrade 2, R2.7 external wall insulation and R5.0 ceiling insulation
62102	3	101	0	29.1	7.8	6.1	Glazing upgrade 1, R2.5 external wall insulation and R4.5 ceiling insulation
62103	2	85	0	18.8	14.2	6.6	Glazing upgrade 1 and R2.5 external wall insulation
62104	1	57.3	0	10.3	7.2	8.4	
62105	2	87.3	0	17.6	7.2	7.5	
62106	2	87.3	0	6.6	5.7	8.9	
62107	1	57.3	0	2.8	6	9.5	
62108	2	85.1	0	8.4	15.7	7.6	
62109	3	101	0	23.6	6.8	6.9	
62110	2	85	0	30.3	4.9	6.4	Glazing upgrade 1 and R2.5 external wall insulation
62201	2	87.3	0	15.4	9.4	7.5	
62202	1	57.3	0	9	8.1	8.4	
62203	2	85.1	0	16.9	17.3	6.4	
62204	3	101	0	27.4	8	6.3	Glazing upgrade 1
62205	2	85	0	32.8	4.9	6	Glazing upgrade 2, R2.7 external wall insulation and R5.0 ceiling insulation

Crescent Parklands
Stage C: Buildings 6 and 7

Certificate #HR-F7E3KY-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
Building 7							
7001	2	75.6	0	14.3	17.1	6.8	
7002	2	75	0	11.2	11	7.8	
7003	2	102.7	0	14.1	21	6.4	
7004	2	102.7	0	11.3	20.5	6.8	Glazing upgrade 1
7005	3	95.6	0	2.4	9.4	9	
7101	2	73.4	0	17.8	11.8	7	Glazing upgrade 2, R2.5 external wall insulation, R3.5 subfloor insulation and 1200mm ceiling fans
7102	2	75.3	0	16.7	8.9	7.4	
7103	2	75.6	0	11.6	20.6	6.7	
7104	2	75	0	8.5	9.3	8.3	
7105	3	95.6	0	2	10.8	8.9	
7201	2	73.4	0	10	18.7	7.1	Glazing upgrade 1
7202	2	75.3	0	8.6	10.1	8.2	
7203	2	75.6	0	10.9	13.3	7.6	
7204	2	75	0	6.4	13.2	8.1	
7205	1	49.5	0	9.7	17.9	7.2	Glazing upgrade 1
7206	1	49.5	0	12.7	13.7	7.4	
7207	3	95.6	0	1.9	10.8	8.9	
7301	2	73.4	0	5.4	19.2	7.6	Glazing upgrade 1
7302	2	75.3	0	9.3	9.5	8.2	
7303	2	75.6	0	12.2	12.2	7.6	
7304	2	75	0	7.1	12.3	8.2	
7305	1	49.5	0	14.4	20	6.4	
7306	1	49.5	0	14.2	13.8	7.2	
7307	3	95.6	0	2.4	10	8.9	
7401	2	73.4	0	13.8	19.1	6.6	
7402	2	75.3	0	14.7	7.4	7.9	
7403	2	75.6	0	14.7	15	7	
7404	2	75	0	9.4	6.9	8.4	
7405	1	49.5	0	18.2	13.9	6.7	
7406	1	49.5	0	19.2	12.2	6.8	

Certificate #HR-F7E3KY-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
7407	3	95.6	0	3.3	8.5	9	
7408	2	78.7	0	13	5.5	8.3	
7409	1	57.5	0	29.6	7.4	6.1	Glazing upgrade 1
7501	2	73.4	0	14.5	18.3	6.6	
7502	2	75.3	0	15.9	6.7	7.8	
7503	2	75.6	0	16.1	14.3	6.9	
7504	2	75	0	10.4	7.4	8.3	
7505	1	49.5	0	19.7	13.6	6.6	
7506	1	49.5	0	19.8	12.5	6.7	
7507	3	95.6	0	4.2	8.5	8.9	
7508	2	78.7	0	5.9	6.7	8.9	
7509	1	73.4	0	20.1	13.8	6.5	Glazing upgrade 1
7601	2	73.4	0	14.6	18.3	6.6	
7602	2	75.3	0	15.8	7.3	7.7	
7603	2	75.6	0	16.3	10.1	7.4	
7604	2	75	0	10.4	8.2	8.2	
7605	1	49.5	0	17.1	13.5	6.9	
7606	1	49.5	0	18.8	13	6.8	
7607	3	95.6	0	3.8	8.8	8.9	
7608	2	78.7	0	6.1	6.5	8.9	
7609	1	73.4	0	19.1	17.5	6.2	
7701	2	73.4	0	15.7	17.7	6.6	
7702	2	75.3	0	16.8	6.7	7.7	
7703	2	75.6	0	17.5	10.2	7.2	
7704	2	75	0	11.5	9	8	
7705	1	49.5	0	20.9	13.3	6.4	
7706	1	49.5	0	20.6	11.9	6.7	
7707	3	95.6	0	4.8	8.4	8.8	
7708	2	78.7	0	6.3	6.7	8.9	
7709	1	73.4	0	20	16.8	6.2	
7801	2	73.4	0	15.3	18.2	6.6	
7802	2	75.3	0	16.4	7.2	7.7	

Crescent Parklands
Stage C: Buildings 6 and 7

Certificate #HR-F7E3KY-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
7803	2	75.6	0	16.6	13.7	6.9	
7804	2	75	0	10.9	7.4	8.3	
7805	1	49.5	0	20.6	12.8	6.6	
7806	1	49.5	0	20.3	12.3	6.7	
7807	3	95.6	0	4.5	8.4	8.9	
7808	2	78.7	0	6.5	6.6	8.9	
7809	1	73.4	0	19.8	17.3	6.1	
7901	2	73.4	0	15.8	17.4	6.6	
7902	2	75.3	0	17.4	6.7	7.6	
7903	2	75.6	0	17.9	13.5	6.8	
7904	2	75	0	11.9	7.4	8.2	
7905	1	49.5	0	21.9	13.4	6.3	
7906	1	49.5	0	21.6	11.8	6.6	
7907	3	95.6	0	4.9	8.8	8.8	
7908	2	78.7	0	6.7	6.7	8.8	
7909	1	73.4	0	20.7	16.9	6.1	
71001	2	73.4	0	17	16.9	6.5	
71002	2	75.3	0	18.5	6.3	7.5	
71003	2	75.6	0	19.6	9.6	7.1	
71004	2	75	0	12.9	8.2	7.9	
71005	1	49.5	0	23.7	13.2	6.1	
71006	1	49.5	0	23.4	12.7	6.2	
71007	3	95.6	0	5.1	8.4	8.8	
71008	2	78.7	0	7.8	6	8.8	
71009	1	73.4	0	16.1	14.3	6.9	Glazing upgrade 1
71101	2	73.4	0	16.3	18.6	6.4	
71102	2	75.3	0	18	8.8	7.3	
71103	2	75.6	0	21.4	11.2	6.7	
71104	2	75	0	12.6	9.8	7.8	
71105	1	49.5	0	18.5	12.3	6.9	Glazing upgrade 1
71106	1	49.5	0	18.5	12	6.9	Glazing upgrade 1
71107	3	95.6	0	8.2	9.3	8.3	

Certificate #HR-F7E3KY-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
71108	2	78.7	0	10.2	8.2	8.3	
71109	2	73.4	0	17.7	14.8	6.7	Glazing upgrade 1
71201	2	73.4	0	19	16.7	6.3	
71202	2	75.3	0	21.5	6.5	7.2	
71203	2	75.6	0	23.6	12.1	6.3	
71204	2	75	0	15.7	7.8	7.7	
71205	1	49.5	0	19.7	11.3	6.9	Glazing upgrade 1
71206	1	49.5	0	19.2	10.6	7	Glazing upgrade 1
71207	3	95.6	0	6.3	8.6	8.6	
71208	2	78.7	0	9.5	6.1	8.5	
71209	2	73.4	0	20.2	13.7	6.5	Glazing upgrade 1
71301	2	73.4	0	18.9	16.3	6.3	
71302	2	75.3	0	21.2	6.1	7.3	
71303	2	75.6	0	24.3	12.1	6.2	
71304	2	75	0	16	7.7	7.7	
71305	1	49.5	0	20.6	10.2	6.9	Glazing upgrade 1
71306	1	49.5	0	20.1	10.1	6.9	Glazing upgrade 1
71307	3	95.6	0	7.3	8.6	8.5	
71308	2	78.7	0	9.5	6.2	8.5	
71309	2	73.4	0	20	13.5	6.6	Glazing upgrade 1
71401	2	73.4	0	16.5	16.8	6.6	
71402	2	75.3	0	20	6.2	7.4	
71403	2	75.6	0	23.6	10.1	6.5	
71404	2	75	0	15.5	8.8	7.6	
71405	1	49.5	0	20.2	10.9	6.9	Glazing upgrade 1
71406	1	49.5	0	19.6	10.8	6.9	Glazing upgrade 1
71407	3	95.6	0	7.4	8	8.6	
71408	2	78.7	0	9.5	6.1	8.6	
71409	2	73.4	0	19.3	13.8	6.6	Glazing upgrade 1
71501	2	73.4	0	13.6	16.1	7	
71502	2	75.3	0	20.4	6.1	7.4	
71503	2	75.6	0	25.5	9.2	6.4	

Crescent Parklands
Stage C: Buildings 6 and 7

Certificate #HR-F7E3KY-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
71504	2	75	0	16.5	8.6	7.4	
71505	1	49.5	0	21	10.2	6.8	Glazing upgrade 1
71506	1	49.5	0	20.5	10	6.9	Glazing upgrade 1
71507	3	95.6	0	8	7.7	8.5	
71508	2	78.7	0	9.7	6.2	8.5	
71509	2	73.4	0	19.6	13.9	6.6	Glazing upgrade 1
71601	2	73.4	0	11.2	16.3	7.2	
71602	2	75.3	0	19.9	6.2	7.4	
71603	2	75.6	0	18.8	13.4	6.7	Glazing upgrade 1
71604	2	75	0	16.2	7.5	7.7	
71605	1	49.5	0	20.6	10.7	6.8	Glazing upgrade 1
71606	1	49.5	0	20	10.4	6.9	Glazing upgrade 1
71607	3	95.6	0	6.3	8.7	8.6	
71608	2	78.7	0	9.6	6.2	8.5	
71609	2	73.4	0	18	13.9	6.8	Glazing upgrade 1
71701	2	73.4	0	10.3	15.9	7.4	
71702	2	75.3	0	20.6	5.9	7.3	
71703	2	75.6	0	25.1	11.8	6.1	
71704	2	75	0	16.8	8	7.5	
71705	1	49.5	0	21.3	10	6.8	Glazing upgrade 1
71706	1	49.5	0	20.9	9.9	6.9	Glazing upgrade 1
71707	3	95.6	0	7.7	8	8.5	
71708	2	78.7	0	9.5	6	8.6	
71709	2	73.4	0	20.8	17.1	6	
71801	2	73.4	0	9.8	16.7	7.4	
71802	2	75.3	0	20.2	6.1	7.4	
71803	2	75.6	0	24.4	9.6	6.4	
71804	2	75	0	16.3	8.5	7.5	
71805	1	49.5	0	20.9	10.7	6.8	Glazing upgrade 1
71806	1	49.5	0	20.4	10.5	6.9	Glazing upgrade 1
71807	3	95.6	0	8	7.7	8.5	
71808	2	78.7	0	9.5	6.2	8.5	

Crescent Parklands
Stage C: Buildings 6 and 7

Certificate #HR-F7E3KY-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
71809	2	73.4	0	14	16.9	6.9	
71901	2	73.4	0	9.2	16.1	7.4	
71902	2	75.3	0	20.9	5.9	7.3	
71903	2	75.6	0	26.1	9.3	6.3	
71904	2	75	0	17.1	8.2	7.4	
71905	1	49.5	0	21.6	9.9	6.8	Glazing upgrade 1
71906	1	49.5	0	21.1	10	6.9	Glazing upgrade 1
71907	3	95.6	0	8.4	7.6	8.5	
71908	2	78.7	0	9.1	6.1	8.6	
71909	2	73.4	0	11.3	16.6	7.2	
72001	2	73.4	0	8.8	16.6	7.4	
72002	2	75.3	0	20.4	6.1	7.4	
72003	2	75.6	0	19.3	13.1	6.7	Glazing upgrade 1
72004	2	75	0	16.8	7.9	7.5	
72005	1	49.5	0	21.2	10.7	6.8	Glazing upgrade 1
72006	1	49.5	0	20.6	10.6	6.8	Glazing upgrade 1
72007	3	95.6	0	6.7	8.6	8.6	
72008	2	78.7	0	8.8	5.9	8.7	
72009	2	73.4	0	8.9	17.7	7.3	
72101	2	73.4	0	9.1	16.2	7.4	
72102	2	75.3	0	21	6	7.3	
72103	2	75.6	0	25.8	11.6	6.1	
72104	2	75	0	17	7.9	7.5	
72105	1	49.5	0	21.7	9.9	6.8	Glazing upgrade 1
72106	1	49.5	0	21.3	10	6.8	Glazing upgrade 1
72107	3	95.6	0	7.8	8	8.5	
72108	2	78.7	0	7.6	6.3	8.8	
72109	2	73.4	0	8.8	17.4	7.4	
72201	2	73.4	0	14.5	17.8	6.7	
72202	2	75.3	0	26.8	8.9	6.3	
72203	2	75.6	0	26.3	10	6.2	Glazing upgrade 1
72204	2	75	0	21.2	9.2	6.9	

Certificate #HR-F7E3KY-01

Accreditation # HERA10213

Thermal performance specifications

Unit Number	Number of Bedrooms	Floor area (m ²)		Predicted loads (MJ/m ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
72205	1	49.5	0	24.8	12.5	6.1	Glazing upgrade 1, R4.5 ceiling insulation and R2.5 insulation to external walls
72206	1	49.5	0	25.1	12	6.1	Glazing upgrade 1 and R4.5 ceiling insulation
72207	3	95.6	0	17	9	7.4	
72208	2	78.7	0	14	8.3	7.8	
72209	2	73.4	0	15.4	18.5	6.5	

Nationwide House Energy Rating Scheme® Class 2 Summary

NatHERS® Certificate No. #HR-CL19IR-01

Generated on 17 Jul 2026 using Hero 4.1

Property

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



Accredited assessor

Name Tracey Cools
Business name Efficient Living
Email tracey@efficientliving.com.au
Phone +61 400083525
Accreditation No. 10033
Assessor Accrediting Organisation HERA

Verification

To verify this certificate, scan the QR code or visit <http://www.hero-software.com.au/pdf/HR-CL19IR-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.

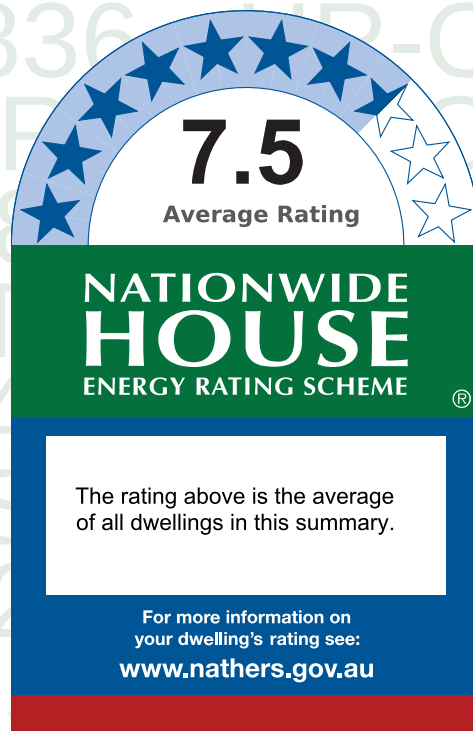
The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

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-NMPJFQ-01	21605	17.1 (34)	8.6 (21)	25.7	7.4	n/a
HR-E3EMFP-01	21705	19.2 (34)	8.2 (21)	27.3	7.3	n/a
HR-8T6OAB-01	P201	25.4 (34)	10.8 (21)	36.2	6.2	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	16.8	8.4
Maximum load	33.5	19.9
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-R79A7V-01	P202	11.3 (34)	12.6 (21)	23.9	7.6	n/a
HR-X3GRME-01	P203	11.0 (34)	11.1 (21)	22.2	7.9	n/a
HR-Q55S4T-01	P204	13.5 (34)	19.3 (21)	32.8	6.7	n/a
HR-JBCW04-01	P205	10.7 (34)	10.8 (21)	21.5	7.9	n/a
HR-WE6DUL-01	P206	11.9 (34)	12.0 (21)	23.9	7.6	n/a
HR-NTGAEN-01	P207	3.3 (34)	15.0 (21)	18.3	8.3	n/a
HR-YSUHHH-01	P208	11.7 (34)	9.6 (21)	21.3	7.9	n/a
HR-8MKU47-01	P301	28.8 (34)	7.5 (21)	36.3	6.2	n/a
HR-9GB3ZB-01	P302	11.1 (34)	11.3 (21)	22.5	7.8	n/a
HR-Q3I7SI-01	P303	12.6 (34)	8.3 (21)	20.9	8.0	n/a
HR-AV0JXN-01	P304	18.0 (34)	19.4 (21)	37.4	6.1	n/a
HR-UKGRQ8-01	P305	11.6 (34)	9.6 (21)	21.2	7.9	n/a
HR-PU5N03-01	P306	12.8 (34)	10.1 (21)	22.9	7.8	n/a
HR-DFDQYP-01	P307	3.1 (34)	15.0 (21)	18.1	8.3	n/a
HR-PFAD12-01	P308	12.0 (34)	8.9 (21)	20.9	8.0	n/a
HR-4QOSZ6-01	P401	27.8 (34)	8.7 (21)	36.5	6.2	n/a
HR-FDYEUM-01	P402	10.9 (34)	10.6 (21)	21.5	7.9	n/a
HR-NMO9C6-01	P403	13.0 (34)	9.2 (21)	22.3	7.8	n/a
HR-AJKB5T-01	P404	18.7 (34)	18.3 (21)	37.0	6.1	n/a
HR-4E40A4-01	P405	12.8 (34)	9.5 (21)	22.3	7.8	n/a
HR-IWVGBT-01	P406	13.8 (34)	10.2 (21)	24.0	7.6	n/a
HR-RM8O44-01	P407	4.5 (34)	19.5 (21)	24.0	7.6	n/a
HR-MN8SLT-01	P408	12.7 (34)	8.9 (21)	21.6	7.9	n/a
HR-D8WKLT-01	P501	29.2 (34)	7.8 (21)	37.0	6.1	n/a
HR-WJETFW-01	P502	12.1 (34)	11.2 (21)	23.3	7.7	n/a
HR-ICZC8Z-01	P503	13.6 (34)	8.2 (21)	21.9	7.9	n/a
HR-NFM1CU-01	P504	19.3 (34)	18.0 (21)	37.3	6.1	n/a
HR-UWWXOC-01	P505	13.2 (34)	9.3 (21)	22.5	7.8	n/a
HR-T0H2NJ-01	P506	14.3 (34)	10.0 (21)	24.3	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-Z5VWMQ-01	P507	3.4 (34)	10.8 (21)	14.3	8.7	n/a
HR-AARJI5-01	P508	13.1 (34)	8.9 (21)	22.0	7.9	n/a
HR-3FC6KK-01	P601	27.3 (34)	8.5 (21)	35.8	6.3	n/a
HR-XJ9UOT-01	P602	11.5 (34)	10.7 (21)	22.2	7.8	n/a
HR-LTQVLB-01	P603	13.6 (34)	8.9 (21)	22.5	7.8	n/a
HR-E7G607-01	P604	19.4 (34)	17.6 (21)	37.0	6.1	n/a
HR-P58TUZ-01	P605	13.5 (34)	9.2 (21)	22.6	7.8	n/a
HR-EFI0QR-01	P606	14.6 (34)	10.0 (21)	24.6	7.6	n/a
HR-VX4Q1E-01	P607	3.5 (34)	11.2 (21)	14.8	8.7	n/a
HR-C1T9T9-01	P608	11.1 (34)	7.9 (21)	19.0	8.2	n/a
HR-KOSPIP-01	P701	29.1 (34)	8.7 (21)	37.8	6.0	n/a
HR-KDQYA5-01	P702	24.0 (34)	13.8 (21)	37.8	6.0	n/a
HR-9OTSTN-01	P703	25.1 (34)	10.4 (21)	35.5	6.3	n/a
HR-M060IW-01	P704	19.6 (34)	12.9 (21)	32.4	6.7	n/a
HR-HZ74B0-01	P705	13.9 (34)	9.1 (21)	23.0	7.8	n/a
HR-FGJSDB-01	P706	15.1 (34)	9.8 (21)	24.9	7.5	n/a
HR-0P84MH-01	P707	3.7 (34)	10.5 (21)	14.2	8.7	n/a
HR-YP02DA-01	P708	13.9 (34)	8.9 (21)	22.8	7.8	n/a
HR-RFV7PN-01	11001	15.4 (34)	7.7 (21)	23.1	7.7	n/a
HR-VPD0Y5-01	11002	4.1 (34)	8.5 (21)	12.7	8.9	n/a
HR-026HJF-01	11004	19.4 (34)	6.7 (21)	26.2	7.4	n/a
HR-NKA6O4-01	11005	8.7 (34)	7.4 (21)	16.2	8.4	n/a
HR-TRP304-01	11006	9.9 (34)	10.8 (21)	20.7	8.0	n/a
HR-1I4QB3-01	11007	3.9 (34)	7.4 (21)	11.3	9.1	n/a
HR-WB28YI-01	11008	16.1 (34)	3.4 (21)	19.5	8.2	n/a
HR-BD213T-01	11009	19.2 (34)	3.2 (21)	22.4	7.8	n/a
HR-BN5UA4-01	11010	18.3 (34)	5.2 (21)	23.4	7.7	n/a
HR-JXW5IE-01	11011	12.3 (34)	7.0 (21)	19.3	8.2	n/a
HR-SUDPL0-01	1103	4.2 (34)	8.7 (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-APSWMD-01	11101	15.6 (34)	7.7 (21)	23.3	7.7	n/a
HR-W5E4DI-01	11102	4.3 (34)	8.8 (21)	13.1	8.9	n/a
HR-W3QZJF-01	11103	4.3 (34)	8.7 (21)	13.1	8.9	n/a
HR-AIXNG6-01	11104	19.7 (34)	6.9 (21)	26.6	7.3	n/a
HR-V2PF6B-01	11105	9.0 (34)	7.5 (21)	16.5	8.4	n/a
HR-48VSK7-01	11106	10.1 (34)	10.4 (21)	20.5	8.0	n/a
HR-YFI6M9-01	11107	4.0 (34)	7.6 (21)	11.6	9.1	n/a
HR-0JXZRM-01	11108	16.4 (34)	3.7 (21)	20.1	8.1	n/a
HR-3WO8N7-01	11109	19.5 (34)	3.0 (21)	22.5	7.8	n/a
HR-P23TLK-01	11110	4.7 (34)	8.7 (21)	13.4	8.8	n/a
HR-59AJ6P-01	11111	12.6 (34)	6.9 (21)	19.5	8.2	n/a
HR-GGTN30-01	11201	15.7 (34)	7.6 (21)	23.4	7.7	n/a
HR-55K2VE-01	11202	4.4 (34)	9.0 (21)	13.3	8.8	n/a
HR-BD92UK-01	11203	4.5 (34)	8.8 (21)	13.3	8.8	n/a
HR-ZAFZKZ-01	11204	19.9 (34)	6.8 (21)	26.7	7.3	n/a
HR-OK9IOW-01	11205	9.1 (34)	7.4 (21)	16.5	8.4	n/a
HR-22L2IO-01	11206	10.2 (34)	10.5 (21)	20.8	8.0	n/a
HR-FV2E35-01	11207	4.1 (34)	7.1 (21)	11.2	9.1	n/a
HR-FZ05R9-01	11208	16.5 (34)	3.4 (21)	19.9	8.1	n/a
HR-Q24A9H-01	11209	19.6 (34)	3.2 (21)	22.8	7.8	n/a
HR-ZI5IUD-01	11210	4.8 (34)	8.8 (21)	13.6	8.8	n/a
HR-UVWMZY-01	11211	12.7 (34)	6.9 (21)	19.6	8.1	n/a
HR-TK4XK8-01	11301	15.9 (34)	7.2 (21)	23.0	7.7	n/a
HR-DN635C-01	11302	4.4 (34)	9.3 (21)	13.6	8.8	n/a
HR-6WQ6JI-01	11303	4.5 (34)	8.7 (21)	13.2	8.9	n/a
HR-5V4UD3-01	11304	20.0 (34)	6.8 (21)	26.8	7.3	n/a
HR-HMZ9TI-01	11305	9.2 (34)	7.6 (21)	16.9	8.4	n/a
HR-6ENHL3-01	11306	10.4 (34)	9.5 (21)	19.9	8.1	n/a
HR-FIDAMY-01	11307	4.2 (34)	7.5 (21)	11.7	9.0	n/a

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HR-L8RP2O-01	11308	16.6 (34)	3.4 (21)	20.0	8.1	n/a
HR-92KA9P-01	11309	19.7 (34)	3.2 (21)	22.9	7.8	n/a
HR-FSF951-01	11310	4.8 (34)	8.8 (21)	13.6	8.8	n/a
HR-N2XXRQ-01	11311	12.8 (34)	6.9 (21)	19.7	8.1	n/a
HR-D41V65-01	11401	16.0 (34)	7.5 (21)	23.5	7.7	n/a
HR-U5PZPF-01	11402	4.4 (34)	9.2 (21)	13.6	8.8	n/a
HR-77ZMWI-01	11403	4.6 (34)	8.7 (21)	13.3	8.8	n/a
HR-C0CJ5F-01	11404	20.2 (34)	6.8 (21)	26.9	7.3	n/a
HR-28ED7N-01	11405	9.4 (34)	7.7 (21)	17.1	8.4	n/a
HR-P256DS-01	11406	10.5 (34)	9.6 (21)	20.2	8.1	n/a
HR-AF67DA-01	11407	4.1 (34)	6.6 (21)	10.7	9.2	n/a
HR-OTRNR7-01	11408	16.7 (34)	3.8 (21)	20.5	8.0	n/a
HR-KQBUZE-01	11409	19.9 (34)	3.0 (21)	22.9	7.8	n/a
HR-1FJTCTV-01	11410	4.9 (34)	8.5 (21)	13.4	8.8	n/a
HR-K2LY6E-01	11411	12.9 (34)	6.9 (21)	19.8	8.1	n/a
HR-D7SUSN-01	11501	16.3 (34)	7.2 (21)	23.4	7.7	n/a
HR-JNWWY8A-01	11502	4.6 (34)	9.1 (21)	13.7	8.8	n/a
HR-B4BB2C-01	11503	4.7 (34)	8.6 (21)	13.3	8.8	n/a
HR-KDOQKH-01	11504	20.5 (34)	6.8 (21)	27.3	7.3	n/a
HR-B9NYFX-01	11505	9.6 (34)	8.0 (21)	17.6	8.3	n/a
HR-J469IN-01	11506	10.8 (34)	9.2 (21)	20.0	8.1	n/a
HR-2D8CA4-01	11507	4.4 (34)	7.6 (21)	12.0	9.0	n/a
HR-UZMZWE-01	11508	17.0 (34)	3.6 (21)	20.5	8.0	n/a
HR-BA630J-01	11509	20.1 (34)	3.1 (21)	23.2	7.7	n/a
HR-MSKI4-01	11510	5.0 (34)	8.6 (21)	13.7	8.8	n/a
HR-AU3PDP-01	11511	13.2 (34)	6.8 (21)	20.0	8.1	n/a
HR-R3FT45-01	11601	16.5 (34)	7.4 (21)	23.9	7.6	n/a
HR-1460V4-01	11602	4.7 (34)	8.7 (21)	13.4	8.8	n/a
HR-QIT84K-01	11603	4.7 (34)	8.7 (21)	13.5	8.8	n/a



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HR-AQJY00-01	11604	20.7 (34)	7.1 (21)	27.8	7.2	n/a
HR-WWYPYT-01	11605	9.8 (34)	7.8 (21)	17.6	8.3	n/a
HR-3F429Y-01	11606	10.9 (34)	9.5 (21)	20.4	8.1	n/a
HR-PMF32V-01	11607	4.5 (34)	7.6 (21)	12.1	8.9	n/a
HR-C5HYHB-01	11608	17.2 (34)	3.6 (21)	20.8	8.0	n/a
HR-1AFLRL-01	11609	20.3 (34)	3.1 (21)	23.5	7.7	n/a
HR-VI7K99-01	11610	5.2 (34)	8.7 (21)	13.9	8.8	n/a
HR-H2I5B2-01	11611	13.5 (34)	7.1 (21)	20.6	8.0	n/a
HR-AEFT5R-01	11701	16.7 (34)	7.3 (21)	24.1	7.6	n/a
HR-U3GG7D-01	11702	4.6 (34)	11.1 (21)	15.7	8.5	n/a
HR-KJUR9A-01	11703	5.0 (34)	8.3 (21)	13.3	8.8	n/a
HR-DTJTH7-01	11704	20.8 (34)	6.8 (21)	27.6	7.2	n/a
HR-0AASVH-01	11705	9.8 (34)	7.3 (21)	17.1	8.4	n/a
HR-6NXHS0-01	11706	15.0 (34)	8.2 (21)	23.3	7.7	n/a
HR-O84R46-01	11707	9.4 (34)	8.2 (21)	17.7	8.3	n/a
HR-4H194Y-01	11708	17.6 (34)	3.7 (21)	21.2	7.9	n/a
HR-6OWTHV-01	11709	20.7 (34)	3.3 (21)	24.0	7.6	n/a
HR-2SG8JF-01	11710	5.3 (34)	8.6 (21)	13.9	8.8	n/a
HR-QH78I2-01	11711	13.2 (34)	6.6 (21)	19.8	8.1	n/a
HR-IFZVX7-01	11801	17.0 (34)	7.6 (21)	24.6	7.6	n/a
HR-QE1XNO-01	11802	4.8 (34)	9.0 (21)	13.7	8.8	n/a
HR-TY3AF1-01	11803	5.2 (34)	8.4 (21)	13.6	8.8	n/a
HR-6D1VML-01	11804	21.0 (34)	6.7 (21)	27.7	7.2	n/a
HR-8JSOVY-01	11805	10.1 (34)	7.9 (21)	18.0	8.3	n/a
HR-2E63ZT-01	11806	16.2 (34)	8.2 (21)	24.4	7.6	n/a
HR-H6OK83-01	11807	9.5 (34)	7.5 (21)	17.1	8.4	n/a
HR-1A0TI9-01	11808	17.6 (34)	3.7 (21)	21.3	7.9	n/a
HR-CJPFOW-01	11809	20.7 (34)	3.3 (21)	24.0	7.6	n/a
HR-RWRHVK-01	11810	5.3 (34)	7.6 (21)	12.9	8.9	n/a



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HR-O5EW5I-01	11811	13.0 (34)	9.8 (21)	22.8	7.8	n/a
HR-8TUVGX-01	11901	16.4 (34)	7.5 (21)	24.0	7.6	n/a
HR-YUEVKK-01	11902	6.1 (34)	11.4 (21)	17.5	8.3	n/a
HR-LN70OG-01	11903	6.1 (34)	11.4 (21)	17.5	8.4	n/a
HR-TK35Q3-01	11904	20.6 (34)	8.0 (21)	28.6	7.1	n/a
HR-PT0573-01	11905	20.2 (34)	11.9 (21)	32.1	6.7	n/a
HR-UXERZU-01	11906	19.1 (34)	11.1 (21)	30.2	6.9	n/a
HR-AU9AE9-01	11907	16.2 (34)	4.0 (21)	20.2	8.1	n/a
HR-FFE0UC-01	11908	20.7 (34)	3.3 (21)	23.9	7.6	n/a
HR-XRZ6XT-01	11909	5.4 (34)	8.4 (21)	13.7	8.8	n/a
HR-J0K7DF-01	11910	20.4 (34)	6.6 (21)	27.0	7.3	n/a
HR-OB5HZZ-01	12001	16.8 (34)	7.0 (21)	23.8	7.7	n/a
HR-2JPW6A-01	12002	6.1 (34)	11.6 (21)	17.8	8.3	n/a
HR-LMKN3Q-01	12003	6.1 (34)	10.8 (21)	17.0	8.4	n/a
HR-3IPFX4-01	12004	20.7 (34)	7.9 (21)	28.6	7.1	n/a
HR-F7JE9B-01	12005	19.8 (34)	11.6 (21)	31.4	6.8	n/a
HR-4EOEJ0-01	12006	19.2 (34)	11.1 (21)	30.2	6.9	n/a
HR-HAD8DP-01	12007	18.4 (34)	3.8 (21)	22.2	7.9	n/a
HR-JPD0A2-01	12008	20.8 (34)	3.3 (21)	24.0	7.6	n/a
HR-VNZKNM-01	12009	5.4 (34)	8.4 (21)	13.9	8.8	n/a
HR-1RX0BB-01	12010	21.0 (34)	6.1 (21)	27.1	7.3	n/a
HR-EBQ61C-01	12101	16.7 (34)	7.2 (21)	23.9	7.6	n/a
HR-TACANY-01	12102	6.0 (34)	11.7 (21)	17.7	8.3	n/a
HR-4HE3ST-01	12103	6.1 (34)	10.8 (21)	16.9	8.4	n/a
HR-9EGTEP-01	12104	20.7 (34)	8.0 (21)	28.7	7.1	n/a
HR-GB2NNT-01	12105	19.8 (34)	11.5 (21)	31.3	6.8	n/a
HR-2UFN3B-01	12106	19.2 (34)	10.9 (21)	30.1	6.9	n/a
HR-H388O6-01	12107	18.3 (34)	3.8 (21)	22.1	7.9	n/a
HR-PQEGT5-01	12108	20.7 (34)	3.3 (21)	24.0	7.6	n/a

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HR-GB1GUM-01	12109	5.4 (34)	8.4 (21)	13.8	8.8	n/a
HR-V86RO3-01	12110	20.9 (34)	6.0 (21)	26.9	7.3	n/a
HR-BK1629-01	12201	16.8 (34)	7.4 (21)	24.2	7.6	n/a
HR-WNLIM8-01	12202	6.2 (34)	11.4 (21)	17.6	8.3	n/a
HR-3Y0N0Q-01	12203	6.1 (34)	10.6 (21)	16.7	8.4	n/a
HR-J0LAC9-01	12204	20.9 (34)	8.1 (21)	29.0	7.1	n/a
HR-41DE6J-01	12205	20.0 (34)	11.9 (21)	31.9	6.8	n/a
HR-7KUSUE-01	12206	17.7 (34)	12.6 (21)	30.3	6.9	n/a
HR-2SEPEZ-01	12207	16.7 (34)	3.9 (21)	20.6	8.0	n/a
HR-SGGQZ9-01	12208	20.7 (34)	3.3 (21)	24.0	7.6	n/a
HR-194XTW-01	12209	5.5 (34)	8.4 (21)	13.9	8.8	n/a
HR-HJMSM4-01	12210	21.1 (34)	6.0 (21)	27.0	7.3	n/a
HR-OJBRTJ-01	12301	16.9 (34)	7.1 (21)	24.0	7.6	n/a
HR-NFCTUN-01	12302	6.3 (34)	11.6 (21)	17.9	8.3	n/a
HR-2N8HZI-01	12303	6.3 (34)	10.8 (21)	17.1	8.4	n/a
HR-8V7JNH-01	12304	21.0 (34)	7.9 (21)	28.9	7.1	n/a
HR-J9HW2C-01	12305	20.2 (34)	11.7 (21)	31.9	6.8	n/a
HR-DKI9SI-01	12306	19.4 (34)	10.9 (21)	30.3	6.9	n/a
HR-3U1DGR-01	12307	18.6 (34)	4.0 (21)	22.6	7.8	n/a
HR-O84B2N-01	12308	20.7 (34)	3.4 (21)	24.2	7.6	n/a
HR-O17QH7-01	12309	5.6 (34)	8.2 (21)	13.8	8.8	n/a
HR-2EDKJZ-01	12310	21.1 (34)	6.2 (21)	27.4	7.3	n/a
HR-M73C9P-01	12401	17.1 (34)	7.5 (21)	24.6	7.6	n/a
HR-WDQ42W-01	12402	6.3 (34)	11.6 (21)	17.9	8.3	n/a
HR-997BJ3-01	12403	6.4 (34)	10.7 (21)	17.1	8.4	n/a
HR-UNM4S9-01	12404	21.2 (34)	8.1 (21)	29.3	7.1	n/a
HR-IPULQL-01	12405	20.3 (34)	11.7 (21)	32.0	6.8	n/a
HR-XGR9ED-01	12406	19.5 (34)	10.8 (21)	30.3	6.9	n/a
HR-MRJP0I-01	12407	18.6 (34)	3.9 (21)	22.4	7.8	n/a

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HR-C66T40-01	12408	20.7 (34)	3.5 (21)	24.3	7.6	n/a
HR-5QO3YX-01	12409	5.7 (34)	8.0 (21)	13.7	8.8	n/a
HR-HKQZTD-01	12410	21.2 (34)	6.1 (21)	27.4	7.3	n/a
HR-XGL48Z-01	12501	17.1 (34)	7.3 (21)	24.5	7.6	n/a
HR-K1SAIM-01	12502	6.4 (34)	11.5 (21)	17.9	8.3	n/a
HR-LHHR59-01	12503	6.3 (34)	10.6 (21)	17.0	8.4	n/a
HR-TKWQXO-01	12504	21.4 (34)	8.0 (21)	29.4	7.1	n/a
HR-PW0HHB-01	12505	20.4 (34)	11.6 (21)	32.1	6.7	n/a
HR-LFUP26-01	12506	19.6 (34)	10.8 (21)	30.4	6.9	n/a
HR-1IAJ5L-01	12507	16.9 (34)	4.1 (21)	21.0	8.0	n/a
HR-9SMTNJ-01	12508	20.7 (34)	3.6 (21)	24.3	7.6	n/a
HR-FSU5U3-01	12509	5.7 (34)	8.0 (21)	13.8	8.8	n/a
HR-1KW35G-01	12510	21.3 (34)	6.1 (21)	27.4	7.3	n/a
HR-K3F4O9-01	12601	17.2 (34)	7.2 (21)	24.3	7.6	n/a
HR-77W842-01	12602	6.4 (34)	11.7 (21)	18.1	8.3	n/a
HR-GB1V51-01	12603	6.5 (34)	11.0 (21)	17.5	8.3	n/a
HR-90RZZ8-01	12604	21.5 (34)	7.9 (21)	29.4	7.1	n/a
HR-R2ONXY-01	12605	20.6 (34)	11.7 (21)	32.3	6.7	n/a
HR-XG7URA-01	12606	19.7 (34)	10.8 (21)	30.5	6.9	n/a
HR-IO4VMW-01	12607	18.6 (34)	4.1 (21)	22.7	7.8	n/a
HR-R0LXKU-01	12608	20.7 (34)	3.7 (21)	24.4	7.6	n/a
HR-X7ZCFS-01	12609	5.8 (34)	8.2 (21)	14.0	8.8	n/a
HR-HPKP0V-01	12610	21.3 (34)	6.5 (21)	27.8	7.2	n/a
HR-YBFFQA-01	12701	16.8 (34)	7.2 (21)	24.0	7.6	n/a
HR-EFL5WZ-01	12702	6.4 (34)	11.0 (21)	17.4	8.4	n/a
HR-BH3DM2-01	12703	6.5 (34)	10.7 (21)	17.2	8.4	n/a
HR-AMUNRX-01	12704	21.6 (34)	7.7 (21)	29.2	7.1	n/a
HR-6CKRKE-01	12705	20.6 (34)	10.5 (21)	31.2	6.9	n/a
HR-ES8C1H-01	12706	18.3 (34)	6.8 (21)	25.1	7.4	n/a



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HR-31LR34-01	12707	16.6 (34)	4.1 (21)	20.7	8.0	n/a
HR-C3Q339-01	12708	20.4 (34)	3.6 (21)	24.0	7.6	n/a
HR-FO23TK-01	12709	6.0 (34)	8.7 (21)	14.7	8.7	n/a
HR-OP83Y5-01	12710	22.6 (34)	7.2 (21)	29.8	7.0	n/a
HR-RJYH17-01	12801	16.9 (34)	7.4 (21)	24.3	7.6	n/a
HR-S415VU-01	12802	6.4 (34)	11.5 (21)	17.9	8.3	n/a
HR-MGCD5H-01	12803	6.6 (34)	11.0 (21)	17.6	8.3	n/a
HR-GOT5WI-01	12804	21.8 (34)	7.7 (21)	29.5	7.1	n/a
HR-STIKTQ-01	12805	20.8 (34)	10.5 (21)	31.2	6.8	n/a
HR-BARZC2-01	12806	18.5 (34)	6.6 (21)	25.1	7.4	n/a
HR-B1UH59-01	12807	19.1 (34)	4.1 (21)	23.2	7.7	n/a
HR-QY6H0K-01	12808	20.5 (34)	3.8 (21)	24.3	7.6	n/a
HR-P5HYSG-01	12809	5.9 (34)	8.4 (21)	14.3	8.7	n/a
HR-ARPCNU-01	12810	22.3 (34)	7.4 (21)	29.7	7.0	n/a
HR-IL18Z4-01	12901	16.9 (34)	7.5 (21)	24.4	7.6	n/a
HR-OVK9O0-01	12902	6.5 (34)	11.6 (21)	18.1	8.3	n/a
HR-D8DVL9-01	12903	6.6 (34)	10.7 (21)	17.2	8.4	n/a
HR-EXH8MZ-01	12904	21.9 (34)	7.8 (21)	29.8	7.0	n/a
HR-GFWVXC-01	12905	20.9 (34)	10.4 (21)	31.3	6.8	n/a
HR-QKJAYA-01	12906	18.5 (34)	6.7 (21)	25.2	7.4	n/a
HR-SIYUXT-01	12907	19.2 (34)	4.1 (21)	23.3	7.7	n/a
HR-0B6XBR-01	12908	20.0 (34)	3.8 (21)	23.8	7.7	n/a
HR-THY84A-01	12909	6.0 (34)	8.6 (21)	14.6	8.7	n/a
HR-REEA07-01	12910	22.4 (34)	8.1 (21)	30.4	6.9	n/a
HR-5L7ITQ-01	13001	16.8 (34)	7.9 (21)	24.8	7.5	n/a
HR-Q405XC-01	13002	6.5 (34)	11.3 (21)	17.8	8.3	n/a
HR-PCXKI8-01	13003	6.5 (34)	10.8 (21)	17.3	8.4	n/a
HR-9U7H4N-01	13004	21.9 (34)	7.8 (21)	29.8	7.0	n/a
HR-45PCCQ-01	13005	20.9 (34)	10.7 (21)	31.6	6.8	n/a

Summary of all dwellings

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HR-O6OUQ0-01	13006	18.7 (34)	6.6 (21)	25.3	7.4	n/a
HR-JFL42D-01	13007	17.1 (34)	4.2 (21)	21.3	7.9	n/a
HR-O4DY3J-01	13008	19.5 (34)	3.8 (21)	23.3	7.7	n/a
HR-DH7TPG-01	13009	6.0 (34)	8.5 (21)	14.5	8.7	n/a
HR-CUPRNO-01	13010	22.2 (34)	8.3 (21)	30.4	6.9	n/a
HR-ZLWYCX-01	13101	16.9 (34)	8.5 (21)	25.4	7.4	n/a
HR-6SQXZV-01	13102	6.5 (34)	11.4 (21)	17.9	8.3	n/a
HR-SJGYRR-01	13103	6.7 (34)	10.6 (21)	17.3	8.4	n/a
HR-8STD0F-01	13104	22.1 (34)	7.8 (21)	29.8	7.0	n/a
HR-RDGDGW-01	13105	20.8 (34)	10.5 (21)	31.3	6.8	n/a
HR-ZNCUYX-01	13106	18.9 (34)	6.6 (21)	25.5	7.4	n/a
HR-RSJ9PO-01	13107	19.3 (34)	4.1 (21)	23.4	7.7	n/a
HR-ZV080L-01	13108	19.3 (34)	3.9 (21)	23.2	7.7	n/a
HR-HSU2Z0-01	13109	6.1 (34)	8.6 (21)	14.7	8.7	n/a
HR-XC4A6H-01	13110	22.1 (34)	10.0 (21)	32.2	6.7	n/a
HR-5XEBDD-01	13201	16.9 (34)	8.8 (21)	25.7	7.4	n/a
HR-BDTCMZ-01	13202	6.4 (34)	11.3 (21)	17.8	8.3	n/a
HR-NLI0OK-01	13203	6.7 (34)	10.8 (21)	17.5	8.3	n/a
HR-C8Z26I-01	13204	22.2 (34)	7.7 (21)	30.0	7.0	n/a
HR-RHL037-01	13205	21.2 (34)	10.4 (21)	31.6	6.8	n/a
HR-P6GP8D-01	13206	18.6 (34)	6.3 (21)	25.0	7.5	n/a
HR-6RZMPN-01	13207	17.2 (34)	4.2 (21)	21.4	7.9	n/a
HR-6AEK5G-01	13208	18.8 (34)	4.0 (21)	22.8	7.8	n/a
HR-0A9GOQ-01	13209	6.2 (34)	8.5 (21)	14.7	8.7	n/a
HR-HDFDGR-01	13210	22.0 (34)	11.7 (21)	33.7	6.5	n/a
HR-RMXWFJ-01	13301	16.8 (34)	9.3 (21)	26.1	7.4	n/a
HR-CWIBDX-01	13302	6.3 (34)	11.7 (21)	18.1	8.3	n/a
HR-I0M16L-01	13303	6.7 (34)	10.6 (21)	17.4	8.4	n/a
HR-8B8QLM-01	13304	22.2 (34)	7.7 (21)	30.0	7.0	n/a



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HR-JE2RJ1-01	13305	21.2 (34)	10.7 (21)	31.8	6.8	n/a
HR-63UDFP-01	13306	18.7 (34)	6.2 (21)	24.8	7.5	n/a
HR-VU9N66-01	13307	19.5 (34)	4.1 (21)	23.6	7.7	n/a
HR-8UZ5IC-01	13308	17.7 (34)	4.0 (21)	21.6	7.9	n/a
HR-JILJBS-01	13309	6.2 (34)	8.6 (21)	14.7	8.7	n/a
HR-7FN5FH-01	13310	21.8 (34)	12.6 (21)	34.4	6.4	n/a
HR-V9YZCI-01	13401	17.7 (34)	10.3 (21)	28.0	7.2	n/a
HR-NI0R0W-01	13402	6.8 (34)	11.9 (21)	18.7	8.2	n/a
HR-O95S8Y-01	13403	7.3 (34)	11.2 (21)	18.5	8.3	n/a
HR-RKYKQ6-01	13404	23.3 (34)	7.7 (21)	31.0	6.9	n/a
HR-T9HVD7-01	13405	21.4 (34)	10.8 (21)	32.2	6.7	n/a
HR-F20P2I-01	13406	27.0 (34)	8.3 (21)	35.2	6.3	n/a
HR-07SNLH-01	13407	27.7 (34)	5.8 (21)	33.5	6.6	n/a
HR-LJKVIY-01	13408	27.0 (34)	5.1 (21)	32.1	6.7	n/a
HR-6QHPhK-01	13409	13.4 (34)	9.7 (21)	23.1	7.7	n/a
HR-EVZ5WL-01	13410	21.8 (34)	13.9 (21)	35.7	6.3	n/a
HR-KM7I6E-01	13501	15.6 (34)	8.7 (21)	24.3	7.6	n/a
HR-NMQ90X-01	13502	16.3 (34)	8.1 (21)	24.5	7.6	n/a
HR-SRPF18-01	13503	17.9 (34)	19.9 (21)	37.9	6.0	n/a
HR-ASN7FD-01	13504	13.1 (34)	15.4 (21)	28.5	7.1	n/a
HR-Y9SO4Q-01	13601	27.2 (34)	10.4 (21)	37.6	6.1	n/a
HR-USXP7I-01	13602	26.8 (34)	9.4 (21)	36.3	6.2	n/a
HR-ZCIXP2-01	13603	20.1 (34)	17.4 (21)	37.6	6.1	n/a
HR-CO5UE6-01	13604	19.5 (34)	18.3 (21)	37.8	6.0	n/a
HR-FTJZBM-01	1801	26.1 (34)	6.9 (21)	33.0	6.6	n/a
HR-P5AW6Q-01	1802	6.7 (34)	7.5 (21)	14.2	8.7	n/a
HR-ZX2W3J-01	1803	7.2 (34)	8.5 (21)	15.7	8.5	n/a
HR-4L37PL-01	1804	30.3 (34)	5.7 (21)	36.0	6.2	n/a
HR-R1YY3M-01	1805	18.4 (34)	5.4 (21)	23.9	7.6	n/a

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HR-GZPD57-01	1806	22.1 (34)	7.1 (21)	29.2	7.1	n/a
HR-DXDF0R-01	1807	14.5 (34)	7.1 (21)	21.5	7.9	n/a
HR-997B32-01	1808	25.4 (34)	3.2 (21)	28.6	7.1	n/a
HR-QFNB1I-01	1809	32.9 (34)	2.5 (21)	35.4	6.3	n/a
HR-HMX488-01	1810	30.0 (34)	3.9 (21)	34.0	6.5	n/a
HR-SWT0OZ-01	1901	15.3 (34)	7.9 (21)	23.2	7.7	n/a
HR-JASNBL-01	1902	4.3 (34)	11.0 (21)	15.3	8.6	n/a
HR-182FYF-01	1903	4.2 (34)	8.7 (21)	12.9	8.9	n/a
HR-55H02B-01	1904	19.3 (34)	6.7 (21)	26.0	7.4	n/a
HR-856JT3-01	1905	8.6 (34)	7.4 (21)	16.0	8.4	n/a
HR-03EZ9Y-01	1906	10.2 (34)	8.5 (21)	18.6	8.2	n/a
HR-DGWYBP-01	1907	3.8 (34)	7.2 (21)	11.0	9.2	n/a
HR-5D8GDR-01	1908	16.0 (34)	3.8 (21)	19.8	8.1	n/a
HR-W4BF5M-01	1909	19.2 (34)	2.6 (21)	21.8	7.9	n/a
HR-WYA8O5-01	1910	3.7 (34)	8.4 (21)	12.1	8.9	n/a
HR-J8HPAS-01	1911	12.2 (34)	7.0 (21)	19.2	8.2	n/a
HR-4JWGL8-01	21001	23.3 (34)	5.7 (21)	29.0	7.1	n/a
HR-N1923N-01	21002	28.5 (34)	7.9 (21)	36.4	6.2	n/a
HR-ZV3Z64-01	21003	23.5 (34)	6.0 (21)	29.6	7.0	n/a
HR-ZPIZDH-01	21004	25.1 (34)	12.8 (21)	38.0	6.0	n/a
HR-LB6R6Q-01	21005	15.9 (34)	8.6 (21)	24.5	7.6	n/a
HR-CTWOFQ-01	21006	18.8 (34)	8.8 (21)	27.6	7.2	n/a
HR-MH7J98-01	21007	9.3 (34)	17.9 (21)	27.2	7.3	n/a
HR-CQZRTZ-01	21008	4.9 (34)	6.2 (21)	11.1	9.1	n/a
HR-NHCX3L-01	21009	20.8 (34)	4.8 (21)	25.6	7.4	n/a
HR-HKBBEM-01	21101	24.1 (34)	4.1 (21)	28.2	7.2	n/a
HR-2PNK6Y-01	21102	28.8 (34)	7.9 (21)	36.7	6.2	n/a
HR-E3OTCQ-01	21103	23.8 (34)	6.0 (21)	29.8	7.0	n/a
HR-PJBKVU-01	21104	23.1 (34)	11.5 (21)	34.5	6.4	n/a

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HR-8ZT09O-01	21105	16.3 (34)	8.7 (21)	25.0	7.5	n/a
HR-98S6EI-01	21106	19.1 (34)	8.8 (21)	27.9	7.2	n/a
HR-25GGIL-01	21107	9.5 (34)	17.5 (21)	27.0	7.3	n/a
HR-06BNFE-01	21108	5.0 (34)	6.1 (21)	11.1	9.1	n/a
HR-TJ5OUT-01	21109	21.1 (34)	4.9 (21)	26.0	7.4	n/a
HR-5QJW0B-01	21201	23.8 (34)	5.5 (21)	29.3	7.1	n/a
HR-RNQETU-01	21202	28.9 (34)	7.8 (21)	36.8	6.2	n/a
HR-1LTCZ2-01	21203	24.0 (34)	6.0 (21)	30.0	7.0	n/a
HR-17CWFB-01	21204	23.2 (34)	11.3 (21)	34.4	6.4	n/a
HR-XS62K8-01	21205	18.2 (34)	8.4 (21)	26.6	7.3	n/a
HR-5G4JQ9-01	21206	21.3 (34)	9.4 (21)	30.7	6.9	n/a
HR-TJA2OT-01	21207	10.3 (34)	16.2 (21)	26.4	7.4	n/a
HR-XWZR1Y-01	21208	5.1 (34)	6.0 (21)	11.2	9.1	n/a
HR-5NOZSG-01	21209	21.2 (34)	4.6 (21)	25.9	7.4	n/a
HR-5KIONU-01	21301	23.9 (34)	5.5 (21)	29.4	7.1	n/a
HR-3A8MZG-01	21302	29.1 (34)	7.8 (21)	36.9	6.1	n/a
HR-5TRTPQ-01	21303	24.1 (34)	6.0 (21)	30.1	6.9	n/a
HR-5BM6NX-01	21304	23.3 (34)	11.3 (21)	34.5	6.4	n/a
HR-G0TN94-01	21305	16.5 (34)	8.4 (21)	24.9	7.5	n/a
HR-ZMQS06-01	21306	19.5 (34)	8.7 (21)	28.1	7.2	n/a
HR-GD3LA1-01	21307	9.7 (34)	17.6 (21)	27.3	7.3	n/a
HR-7544XZ-01	21308	5.2 (34)	6.1 (21)	11.3	9.1	n/a
HR-49YEV-01	21309	21.4 (34)	4.9 (21)	26.3	7.4	n/a
HR-LVJGPM-01	21401	24.1 (34)	5.5 (21)	29.6	7.0	n/a
HR-FAYVXN-01	21402	29.3 (34)	7.7 (21)	37.0	6.1	n/a
HR-7GEMV5-01	21403	24.2 (34)	6.0 (21)	30.2	6.9	n/a
HR-3NCRXD-01	21404	23.4 (34)	11.4 (21)	34.8	6.4	n/a
HR-7J35SZ-01	21405	16.7 (34)	8.3 (21)	25.0	7.5	n/a
HR-X1OESB-01	21406	19.6 (34)	9.2 (21)	28.8	7.1	n/a

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HR-JR4V6K-01	21407	9.8 (34)	17.7 (21)	27.5	7.3	n/a
HR-AMBXU2-01	21408	5.3 (34)	6.0 (21)	11.3	9.1	n/a
HR-IXF3DT-01	21409	21.5 (34)	4.7 (21)	26.2	7.4	n/a
HR-RQMCWW-01	21501	24.4 (34)	5.5 (21)	29.8	7.0	n/a
HR-KOI109-01	21502	29.6 (34)	7.8 (21)	37.4	6.1	n/a
HR-BKL RU5-01	21503	24.5 (34)	6.0 (21)	30.5	6.9	n/a
HR-KT6DNL-01	21504	23.7 (34)	11.1 (21)	34.8	6.4	n/a
HR-KLA1JK-01	21505	17.0 (34)	8.5 (21)	25.5	7.4	n/a
HR-SMXW66-01	21506	20.0 (34)	9.1 (21)	29.1	7.1	n/a
HR-4NA4M0-01	21507	10.0 (34)	17.1 (21)	27.1	7.3	n/a
HR-S36161-01	21508	5.4 (34)	6.1 (21)	11.5	9.1	n/a
HR-RLFSIR-01	21509	21.9 (34)	5.2 (21)	27.1	7.3	n/a
HR-1N9OXZ-01	21601	24.6 (34)	5.5 (21)	30.1	6.9	n/a
HR-SEF8TS-01	21602	29.8 (34)	7.8 (21)	37.5	6.1	n/a
HR-LBROE5-01	21603	24.7 (34)	6.0 (21)	30.8	6.9	n/a
HR-J1JWO6-01	21604	23.9 (34)	11.1 (21)	35.0	6.4	n/a
HR-ZIPXVM-01	21606	20.1 (34)	9.3 (21)	29.4	7.1	n/a
HR-YL0CCD-01	21607	10.1 (34)	17.4 (21)	27.5	7.2	n/a
HR-WFGA5M-01	21608	5.6 (34)	6.3 (21)	12.0	9.0	n/a
HR-0HDJJO-01	21609	21.1 (34)	4.6 (21)	25.6	7.4	n/a
HR-51SMSP-01	21701	27.0 (34)	5.2 (21)	32.2	6.7	n/a
HR-I7Q90V-01	21702	29.0 (34)	7.3 (21)	36.2	6.2	n/a
HR-39CK4H-01	21703	24.7 (34)	5.8 (21)	30.5	6.9	n/a
HR-SSCDI8-01	21704	25.4 (34)	9.6 (21)	35.0	6.4	n/a
HR-3SV8DC-01	21706	22.3 (34)	8.4 (21)	30.6	6.9	n/a
HR-L4ZN9L-01	21707	10.8 (34)	15.8 (21)	26.6	7.3	n/a
HR-EXSTJC-01	21708	7.9 (34)	5.5 (21)	13.4	8.8	n/a
HR-W5WFMO-01	21709	23.9 (34)	4.8 (21)	28.7	7.1	n/a
HR-2X1PYQ-01	21801	24.7 (34)	5.4 (21)	30.1	6.9	n/a



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HR-FQDX1H-01	21802	29.9 (34)	7.3 (21)	37.2	6.1	n/a
HR-3SDIBO-01	21803	24.8 (34)	5.7 (21)	30.6	6.9	n/a
HR-P91HEF-01	21804	24.0 (34)	11.0 (21)	35.0	6.4	n/a
HR-1NUWK2-01	21805	17.5 (34)	8.4 (21)	25.9	7.4	n/a
HR-3847QN-01	21806	20.4 (34)	9.2 (21)	29.5	7.0	n/a
HR-GBC78V-01	21807	10.4 (34)	17.2 (21)	27.6	7.2	n/a
HR-64EEFG-01	21808	6.0 (34)	5.8 (21)	11.9	9.0	n/a
HR-DLH2KJ-01	21809	22.3 (34)	5.0 (21)	27.3	7.3	n/a
HR-FST700-01	21901	24.9 (34)	5.5 (21)	30.3	6.9	n/a
HR-YHALDL-01	21902	30.0 (34)	7.4 (21)	37.4	6.1	n/a
HR-WJKUI7-01	21903	24.9 (34)	5.8 (21)	30.8	6.9	n/a
HR-2CSMJI-01	21904	24.1 (34)	11.0 (21)	35.1	6.4	n/a
HR-VQ2JSK-01	21905	17.7 (34)	8.5 (21)	26.2	7.4	n/a
HR-2QT468-01	21906	20.6 (34)	9.3 (21)	29.9	7.0	n/a
HR-PZ5R6V-01	21907	10.5 (34)	16.6 (21)	27.1	7.3	n/a
HR-7N4N5W-01	21908	6.1 (34)	5.9 (21)	12.0	9.0	n/a
HR-HB06EF-01	21909	22.4 (34)	5.0 (21)	27.5	7.3	n/a
HR-LVIW31-01	22001	25.0 (34)	5.5 (21)	30.4	6.9	n/a
HR-IMHPOW-01	22002	30.0 (34)	7.3 (21)	37.3	6.1	n/a
HR-7GPVC8-01	22003	25.0 (34)	5.8 (21)	30.8	6.9	n/a
HR-3H8H79-01	22004	24.2 (34)	11.0 (21)	35.2	6.3	n/a
HR-OSXMI9-01	22005	18.1 (34)	8.7 (21)	26.9	7.3	n/a
HR-H3NREZ-01	22006	21.1 (34)	8.7 (21)	29.9	7.0	n/a
HR-DYFD79-01	22007	10.7 (34)	15.4 (21)	26.1	7.4	n/a
HR-SVBO1L-01	22008	6.2 (34)	6.0 (21)	12.2	8.9	n/a
HR-PZK0CP-01	22009	22.5 (34)	5.1 (21)	27.7	7.2	n/a
HR-SVCCDJ-01	22101	24.9 (34)	5.6 (21)	30.5	6.9	n/a
HR-9LBYP9-01	22102	29.9 (34)	7.3 (21)	37.3	6.1	n/a
HR-KXZDZL-01	22103	24.9 (34)	5.8 (21)	30.6	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-VH5L5D-01	22104	24.2 (34)	10.9 (21)	35.1	6.4	n/a
HR-5H3Q37-01	22105	18.1 (34)	8.7 (21)	26.9	7.3	n/a
HR-E5UNFT-01	22106	21.1 (34)	8.9 (21)	30.0	7.0	n/a
HR-75IBX7-01	22107	10.8 (34)	15.3 (21)	26.1	7.4	n/a
HR-X6UVRF-01	22108	6.2 (34)	6.0 (21)	12.2	8.9	n/a
HR-VRZGUS-01	22109	22.5 (34)	5.2 (21)	27.7	7.2	n/a
HR-VEJVPT-01	22201	27.0 (34)	6.0 (21)	33.0	6.6	n/a
HR-742QR7-01	22202	29.1 (34)	7.0 (21)	36.1	6.2	n/a
HR-Q8JH4F-01	22203	24.9 (34)	5.9 (21)	30.8	6.9	n/a
HR-UCV494-01	22204	25.8 (34)	9.6 (21)	35.4	6.3	n/a
HR-WABPU2-01	22205	20.1 (34)	8.1 (21)	28.2	7.2	n/a
HR-L35UZT-01	22206	23.4 (34)	8.0 (21)	31.4	6.8	n/a
HR-3XYU0N-01	22207	11.4 (34)	14.0 (21)	25.3	7.4	n/a
HR-3TNAW6-01	22208	8.3 (34)	5.5 (21)	13.8	8.8	n/a
HR-SHL1ST-01	22209	24.6 (34)	5.0 (21)	29.6	7.0	n/a
HR-KQEBRB-01	22301	25.1 (34)	5.9 (21)	31.0	6.9	n/a
HR-XND836-01	22302	29.9 (34)	7.6 (21)	37.5	6.1	n/a
HR-2I6GQZ-01	22303	24.9 (34)	5.9 (21)	30.8	6.9	n/a
HR-C9C5AT-01	22304	24.4 (34)	10.6 (21)	35.1	6.4	n/a
HR-OIKT5N-01	22305	18.5 (34)	8.7 (21)	27.2	7.3	n/a
HR-7VD0BL-01	22306	21.5 (34)	8.7 (21)	30.1	6.9	n/a
HR-H3ULXM-01	22307	10.9 (34)	15.2 (21)	26.1	7.4	n/a
HR-11A41F-01	22308	6.4 (34)	6.0 (21)	12.3	8.9	n/a
HR-MINH65-01	22309	22.7 (34)	5.1 (21)	27.8	7.2	n/a
HR-QGI7NR-01	22401	25.2 (34)	6.4 (21)	31.6	6.8	n/a
HR-XBFWGQ-01	22402	29.9 (34)	7.8 (21)	37.7	6.0	n/a
HR-7131QG-01	22403	24.8 (34)	5.9 (21)	30.7	6.9	n/a
HR-QIJSNS-01	22404	24.5 (34)	10.6 (21)	35.2	6.4	n/a
HR-60GGFS-01	22405	18.6 (34)	8.5 (21)	27.1	7.3	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-U9KWX4-01	22406	21.6 (34)	8.7 (21)	30.3	6.9	n/a
HR-D27DI2-01	22407	11.2 (34)	15.7 (21)	26.9	7.3	n/a
HR-D9H1ZC-01	22408	6.4 (34)	6.0 (21)	12.4	8.9	n/a
HR-8UVBXQ-01	22409	22.8 (34)	5.3 (21)	28.1	7.2	n/a
HR-ZC7JOK-01	22501	25.2 (34)	6.9 (21)	32.1	6.7	n/a
HR-304RO4-01	22502	29.8 (34)	8.1 (21)	38.0	6.0	n/a
HR-S2JAU4-01	22503	24.8 (34)	5.9 (21)	30.7	6.9	n/a
HR-JZ1Q6R-01	22504	24.7 (34)	10.7 (21)	35.4	6.3	n/a
HR-PO6XLY-01	22505	18.7 (34)	8.8 (21)	27.5	7.3	n/a
HR-5O2XKG-01	22506	21.8 (34)	8.7 (21)	30.5	6.9	n/a
HR-IHGTMS-01	22507	11.3 (34)	15.6 (21)	26.9	7.3	n/a
HR-UYXTVU-01	22508	6.6 (34)	5.9 (21)	12.6	8.9	n/a
HR-IMC6RX-01	22509	23.0 (34)	5.5 (21)	28.4	7.2	n/a
HR-ZWVTOI-01	22601	25.3 (34)	7.7 (21)	33.0	6.6	n/a
HR-MTUKY2-01	22602	23.7 (34)	7.5 (21)	31.2	6.9	n/a
HR-Q4SCVG-01	22603	24.6 (34)	5.7 (21)	30.3	6.9	n/a
HR-V7VSBY-01	22604	24.9 (34)	10.4 (21)	35.3	6.3	n/a
HR-WZMFMJ-01	22605	18.8 (34)	8.5 (21)	27.3	7.3	n/a
HR-KYW29S-01	22606	21.9 (34)	8.8 (21)	30.7	6.9	n/a
HR-P6N5EV-01	22607	11.4 (34)	15.5 (21)	26.9	7.3	n/a
HR-C4YCS8-01	22608	6.5 (34)	5.9 (21)	12.4	8.9	n/a
HR-3OEW2J-01	22609	22.9 (34)	5.6 (21)	28.5	7.2	n/a
HR-LJLOG1-01	22701	25.4 (34)	7.7 (21)	33.1	6.6	n/a
HR-CB5WFU-01	22702	27.7 (34)	7.4 (21)	35.1	6.4	n/a
HR-KL7UKX-01	22703	24.7 (34)	5.8 (21)	30.5	6.9	n/a
HR-PREKA7-01	22704	27.0 (34)	9.3 (21)	36.2	6.2	n/a
HR-685T4E-01	22705	23.1 (34)	7.8 (21)	30.9	6.9	n/a
HR-NCCW9F-01	22706	24.7 (34)	8.1 (21)	32.8	6.6	n/a
HR-I4J0O9-01	22707	12.1 (34)	14.0 (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-RSBIQS-01	22708	9.0 (34)	5.6 (21)	14.6	8.7	n/a
HR-TDWIRY-01	22709	25.1 (34)	5.4 (21)	30.5	6.9	n/a
HR-LXS4EP-01	22801	25.1 (34)	8.7 (21)	33.9	6.5	n/a
HR-YJ1NXT-01	22802	25.8 (34)	5.3 (21)	31.1	6.9	n/a
HR-UBY2O5-01	22803	26.1 (34)	9.8 (21)	35.9	6.3	n/a
HR-51EL37-01	22804	19.4 (34)	8.4 (21)	27.8	7.2	n/a
HR-PVYKKG-01	22805	22.5 (34)	8.7 (21)	31.2	6.9	n/a
HR-UJAWA7-01	22806	11.7 (34)	14.9 (21)	26.6	7.3	n/a
HR-NFHCJ6-01	22807	6.7 (34)	6.0 (21)	12.7	8.9	n/a
HR-XVBNBS-01	22808	23.0 (34)	5.9 (21)	28.9	7.1	n/a
HR-Z0VFEK-01	22901	25.1 (34)	9.5 (21)	34.6	6.4	n/a
HR-IQ83FU-01	22902	25.6 (34)	5.7 (21)	31.3	6.8	n/a
HR-XE7JNM-01	22903	26.2 (34)	10.0 (21)	36.2	6.2	n/a
HR-DRM4U5-01	22904	19.6 (34)	8.4 (21)	28.0	7.2	n/a
HR-ULYBOS-01	22905	22.6 (34)	8.7 (21)	31.4	6.8	n/a
HR-1437EK-01	22906	11.8 (34)	14.5 (21)	26.3	7.4	n/a
HR-EWZ4MR-01	22907	6.8 (34)	6.0 (21)	12.8	8.9	n/a
HR-OINQE0-01	22908	23.0 (34)	6.2 (21)	29.2	7.1	n/a
HR-WTFZ03-01	23001	24.6 (34)	10.2 (21)	34.8	6.4	n/a
HR-NGSCOF-01	23002	25.4 (34)	5.8 (21)	31.2	6.8	n/a
HR-R0AENK-01	23003	26.3 (34)	10.0 (21)	36.2	6.2	n/a
HR-EPLUIL-01	23004	19.7 (34)	8.4 (21)	28.1	7.2	n/a
HR-N0FCJL-01	23005	22.8 (34)	8.7 (21)	31.5	6.8	n/a
HR-2ZSMHX-01	23006	11.6 (34)	14.7 (21)	26.3	7.4	n/a
HR-XWRO1I-01	23007	6.8 (34)	6.0 (21)	12.8	8.9	n/a
HR-OM24OG-01	23008	22.4 (34)	6.2 (21)	28.6	7.1	n/a
HR-YVCPX5-01	23101	24.2 (34)	10.3 (21)	34.5	6.4	n/a
HR-X9FZZJ-01	23102	25.2 (34)	5.7 (21)	30.9	6.9	n/a
HR-3J2AUI-01	23103	26.4 (34)	9.9 (21)	36.3	6.2	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-P1L1RB-01	23104	19.7 (34)	8.4 (21)	28.1	7.2	n/a
HR-DPUDOA-01	23105	22.8 (34)	8.7 (21)	31.5	6.8	n/a
HR-82TS1Y-01	23106	12.1 (34)	15.5 (21)	27.6	7.2	n/a
HR-EPTLSH-01	23107	6.8 (34)	6.0 (21)	12.9	8.9	n/a
HR-O09231-01	23108	22.0 (34)	6.7 (21)	28.7	7.1	n/a
HR-WO35ST-01	23201	22.9 (34)	10.5 (21)	33.3	6.6	n/a
HR-E4CXT2-01	23202	25.0 (34)	5.8 (21)	30.9	6.9	n/a
HR-LJJAMK-01	23203	26.5 (34)	9.9 (21)	36.5	6.2	n/a
HR-AZLUG1-01	23204	19.9 (34)	8.4 (21)	28.3	7.2	n/a
HR-2LTDXW-01	23205	23.0 (34)	8.7 (21)	31.7	6.8	n/a
HR-7CX32P-01	23206	11.8 (34)	15.3 (21)	27.1	7.3	n/a
HR-1Z45ZD-01	23207	6.9 (34)	6.1 (21)	13.0	8.9	n/a
HR-I9SOC3-01	23208	21.5 (34)	7.1 (21)	28.7	7.1	n/a
HR-PCIQT4-01	23301	21.4 (34)	11.0 (21)	32.4	6.7	n/a
HR-V3UXF5-01	23302	24.8 (34)	5.9 (21)	30.7	6.9	n/a
HR-UD3QGQ-01	23303	26.7 (34)	9.8 (21)	36.5	6.2	n/a
HR-MLJDCE-01	23304	22.6 (34)	9.0 (21)	31.6	6.8	n/a
HR-K8BL4A-01	23305	25.2 (34)	9.0 (21)	34.3	6.4	n/a
HR-RB9YZM-01	23306	16.7 (34)	15.0 (21)	31.6	6.8	n/a
HR-CB685P-01	23307	6.9 (34)	6.1 (21)	13.0	8.9	n/a
HR-0JQU1O-01	23308	21.0 (34)	7.2 (21)	28.1	7.2	n/a
HR-8TJJ7M-01	23401	20.9 (34)	11.1 (21)	32.0	6.8	n/a
HR-40O6AX-01	23402	25.6 (34)	5.5 (21)	31.1	6.9	n/a
HR-B5L1QG-01	23403	10.4 (34)	7.0 (21)	17.5	8.4	n/a
HR-2QM0MH-01	23404	15.5 (34)	6.2 (21)	21.7	7.9	n/a
HR-8YJPA9-01	23501	17.9 (34)	8.3 (21)	26.2	7.4	n/a
HR-UHO4WY-01	23502	22.4 (34)	8.3 (21)	30.7	6.9	n/a
HR-RDK093-01	23503	24.4 (34)	11.9 (21)	36.3	6.2	n/a
HR-801WZX-01	23504	30.8 (34)	6.9 (21)	37.7	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-ARBWU-01	2801	33.5 (34)	2.7 (21)	36.2	6.2	n/a
HR-NSQDQJ-01	2802	30.4 (34)	6.7 (21)	37.1	6.1	n/a
HR-QG5ZCD-01	2803	29.9 (34)	4.1 (21)	34.0	6.5	n/a
HR-EWBDKZ-01	2804	24.6 (34)	13.0 (21)	37.5	6.1	n/a
HR-OCDD0C-01	2805	15.6 (34)	8.7 (21)	24.3	7.6	n/a
HR-JZ5YOB-01	2806	18.3 (34)	8.6 (21)	27.0	7.3	n/a
HR-302V8Z-01	2807	10.0 (34)	16.7 (21)	26.8	7.3	n/a
HR-7FJSLO-01	2808	5.5 (34)	5.3 (21)	10.8	9.2	n/a
HR-LHXPJF-01	2809	31.1 (34)	3.6 (21)	34.8	6.4	n/a
HR-NGQBYQ-01	2901	23.6 (34)	4.0 (21)	27.6	7.2	n/a
HR-LIOPBL-01	2902	28.3 (34)	7.2 (21)	35.6	6.3	n/a
HR-X4QCWA-01	2903	23.4 (34)	5.5 (21)	28.8	7.1	n/a
HR-1QNNPB-01	2904	24.9 (34)	13.0 (21)	37.9	6.0	n/a
HR-WCIW4I-01	2905	15.9 (34)	8.7 (21)	24.6	7.6	n/a
HR-I98DR2-01	2906	18.6 (34)	8.8 (21)	27.4	7.3	n/a
HR-QD19R4-01	2907	9.1 (34)	17.5 (21)	26.6	7.3	n/a
HR-DRR0BE-01	2908	4.8 (34)	5.6 (21)	10.5	9.3	n/a
HR-0C5BTE-01	2909	20.6 (34)	4.7 (21)	25.3	7.4	n/a
Averages	572x (Total)	16.8	8.4	25.2	7.5	n/a
Maximum Loads and Minimum Ratings		33.5	19.9	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-D3AYXW-01

Generated on 17 Jul 2026 using Hero 4.1

Property

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



Accredited assessor

Name Tracey Cools
Business name Efficient Living
Email tracey@efficientliving.com.au
Phone +61 400083525
Accreditation No. 10033
Assessor Accrediting Organisation HERA

Verification

To verify this certificate, scan the QR code or visit <http://www.hero-software.com.au/pdf/HR-D3AYXW-01>.

When using either link, ensure you are visiting <http://www.hero-software.com.au>



National Construction Code (NCC) requirements

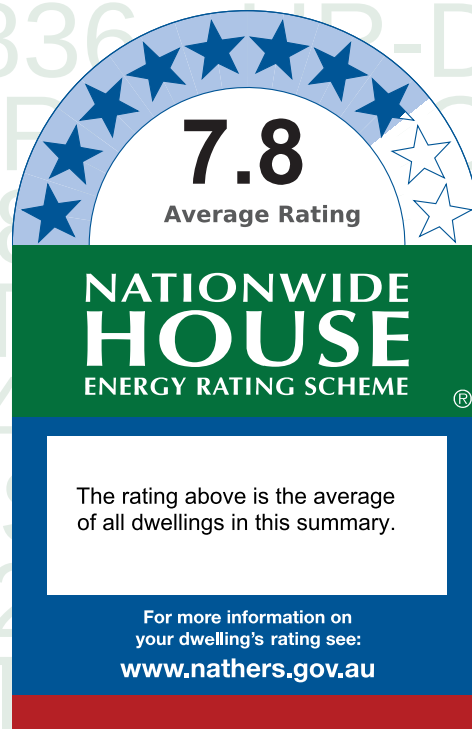
The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two.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

Thermal performance Star rating



NCC heating and cooling maximum loads MJ/m².yr

Limits taken from ABCB Standard 2022

	Heating	Cooling
Average load	16.4	6.0
Maximum load	32.7	10.1
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/m².yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Rating
HR-EMDUCY-01	32106	25.9 (34)	8.4 (21)	34.4	6.4	n/a
HR-PV9WPL-01	31001	5.2 (34)	3.7 (21)	8.9	9.5	n/a
HR-8M3LHO-01	31002	8.6 (34)	5.5 (21)	14.0	8.7	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-FDMHHQ-01	31003	13.0 (34)	7.3 (21)	20.3	8.1	n/a
HR-A45RCP-01	31004	20.5 (34)	3.9 (21)	24.4	7.6	n/a
HR-WR78RU-01	31005	27.1 (34)	5.1 (21)	32.2	6.7	n/a
HR-BI89A4-01	31006	30.6 (34)	7.0 (21)	37.6	6.1	n/a
HR-RC94V6-01	31007	17.4 (34)	4.1 (21)	21.6	7.9	n/a
HR-OE4HQ4-01	31008	9.7 (34)	6.0 (21)	15.7	8.5	n/a
HR-4AKJCG-01	31009	3.2 (34)	8.3 (21)	11.5	9.1	n/a
HR-I8KHWF-01	31101	5.3 (34)	4.3 (21)	9.6	9.4	n/a
HR-5G0CGK-01	31102	9.0 (34)	6.7 (21)	15.7	8.5	n/a
HR-SNRB8E-01	31103	14.0 (34)	9.0 (21)	23.0	7.8	n/a
HR-32U28Y-01	31104	22.5 (34)	4.6 (21)	27.0	7.3	n/a
HR-GGAXN6-01	31105	28.1 (34)	5.6 (21)	33.7	6.5	n/a
HR-BAIFOR-01	31106	27.7 (34)	7.9 (21)	35.5	6.3	n/a
HR-PBI64T-01	31107	18.2 (34)	6.5 (21)	24.7	7.5	n/a
HR-5GWURK-01	31108	8.6 (34)	9.1 (21)	17.7	8.3	n/a
HR-EQDA15-01	31109	5.6 (34)	5.1 (21)	10.7	9.2	n/a
HR-4WX0ZA-01	31201	5.5 (34)	3.7 (21)	9.2	9.4	n/a
HR-CGMWPX-01	31202	8.9 (34)	5.6 (21)	14.4	8.7	n/a
HR-UN3TDE-01	31203	13.4 (34)	7.2 (21)	20.6	8.0	n/a
HR-54L9LL-01	31204	21.0 (34)	4.0 (21)	25.0	7.5	n/a
HR-JTMPUR-01	31205	27.6 (34)	4.9 (21)	32.5	6.7	n/a
HR-ZYQQWH-01	31206	28.2 (34)	7.5 (21)	35.6	6.3	n/a
HR-EH DU53-01	31207	17.8 (34)	4.1 (21)	21.9	7.9	n/a
HR-7TUECH-01	31208	9.5 (34)	6.1 (21)	15.6	8.6	n/a
HR-WNDHBR-01	31209	5.6 (34)	4.2 (21)	9.8	9.4	n/a
HR-HMMMUN-01	31301	5.4 (34)	4.2 (21)	9.6	9.4	n/a
HR-UNT4JP-01	31302	9.2 (34)	6.7 (21)	15.9	8.5	n/a
HR-FP7YEH-01	31303	14.3 (34)	8.9 (21)	23.1	7.7	n/a
HR-BWKN81-01	31304	22.8 (34)	4.5 (21)	27.3	7.3	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-M8KAU0-01	31305	28.4 (34)	5.7 (21)	34.1	6.4	n/a
HR-U7JKPR-01	31306	27.9 (34)	8.5 (21)	36.4	6.2	n/a
HR-8DCNRB-01	31307	18.5 (34)	6.2 (21)	24.7	7.5	n/a
HR-5A0DTA-01	31308	10.1 (34)	9.0 (21)	19.2	8.2	n/a
HR-6CLJAX-01	31309	5.8 (34)	5.1 (21)	10.9	9.2	n/a
HR-2UNB57-01	31401	5.7 (34)	3.7 (21)	9.4	9.4	n/a
HR-WK0V55-01	31402	9.1 (34)	5.5 (21)	14.5	8.7	n/a
HR-4YT780-01	31403	13.7 (34)	7.3 (21)	20.9	8.0	n/a
HR-RGEPK6-01	31404	21.3 (34)	3.9 (21)	25.2	7.4	n/a
HR-E1IA76-01	31405	27.9 (34)	4.9 (21)	32.8	6.6	n/a
HR-RW3K0D-01	31406	28.5 (34)	7.2 (21)	35.7	6.3	n/a
HR-4FBV3X-01	31407	18.0 (34)	4.2 (21)	22.2	7.8	n/a
HR-0KBUBF-01	31408	9.4 (34)	6.0 (21)	15.4	8.6	n/a
HR-155F76-01	31409	5.8 (34)	4.1 (21)	10.0	9.3	n/a
HR-5G87BN-01	31501	5.7 (34)	4.3 (21)	10.0	9.3	n/a
HR-7DFVNV-01	31502	9.5 (34)	6.7 (21)	16.2	8.4	n/a
HR-7F85OJ-01	31503	14.7 (34)	8.8 (21)	23.5	7.7	n/a
HR-RH4QCJ-01	31504	23.3 (34)	4.5 (21)	27.8	7.2	n/a
HR-3QVQUO-01	31505	28.9 (34)	5.5 (21)	34.4	6.4	n/a
HR-SWYJBU-01	31506	27.9 (34)	8.4 (21)	36.3	6.2	n/a
HR-0KWTPW-01	31507	18.8 (34)	6.3 (21)	25.1	7.4	n/a
HR-E4FBQV-01	31508	10.9 (34)	9.0 (21)	19.9	8.1	n/a
HR-46U91V-01	31509	6.0 (34)	5.0 (21)	10.9	9.2	n/a
HR-EIXKUS-01	31601	6.0 (34)	3.8 (21)	9.8	9.4	n/a
HR-SKOL80-01	31602	9.4 (34)	5.4 (21)	14.8	8.7	n/a
HR-12LDJY-01	31603	14.1 (34)	7.3 (21)	21.4	7.9	n/a
HR-2P0VZM-01	31604	21.8 (34)	4.0 (21)	25.8	7.4	n/a
HR-04A5LH-01	31605	28.5 (34)	4.8 (21)	33.3	6.6	n/a
HR-8U9IGN-01	31606	28.9 (34)	7.2 (21)	36.1	6.2	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-XWPQD2-01	31607	18.5 (34)	4.5 (21)	23.0	7.8	n/a
HR-8BSNYR-01	31608	10.7 (34)	5.9 (21)	16.6	8.4	n/a
HR-SG1KKH-01	31609	6.0 (34)	4.3 (21)	10.3	9.3	n/a
HR-OKH89X-01	31701	5.8 (34)	4.3 (21)	10.2	9.3	n/a
HR-W54ZOO-01	31702	9.7 (34)	6.7 (21)	16.4	8.4	n/a
HR-KFYBRG-01	31703	14.9 (34)	8.4 (21)	23.3	7.7	n/a
HR-OKVXEI-01	31704	23.6 (34)	4.5 (21)	28.1	7.2	n/a
HR-9HS94M-01	31705	29.2 (34)	5.3 (21)	34.6	6.4	n/a
HR-5FBTK6-01	31706	29.0 (34)	7.2 (21)	36.2	6.2	n/a
HR-LMXHCP-01	31707	19.4 (34)	5.7 (21)	25.0	7.4	n/a
HR-WS6QB0-01	31708	10.7 (34)	9.0 (21)	19.6	8.1	n/a
HR-O3JDAU-01	31709	4.1 (34)	8.9 (21)	13.0	8.9	n/a
HR-Q2N5NZ-01	31801	6.1 (34)	3.8 (21)	9.9	9.4	n/a
HR-6IKMYR-01	31802	9.7 (34)	5.4 (21)	15.1	8.6	n/a
HR-XEU13Y-01	31803	13.7 (34)	6.7 (21)	20.3	8.1	n/a
HR-L45BQT-01	31804	22.0 (34)	3.8 (21)	25.9	7.4	n/a
HR-R4GWJO-01	31805	28.9 (34)	4.8 (21)	33.7	6.5	n/a
HR-TXC6U1-01	31806	25.6 (34)	6.6 (21)	32.1	6.7	n/a
HR-BR4CV4-01	31807	8.7 (34)	5.7 (21)	14.4	8.7	n/a
HR-QA2DUO-01	31808	3.6 (34)	8.0 (21)	11.6	9.1	n/a
HR-A0HW2L-01	31901	6.0 (34)	4.4 (21)	10.4	9.3	n/a
HR-6OK5AY-01	31902	10.0 (34)	6.8 (21)	16.8	8.4	n/a
HR-DXC1D3-01	31903	14.5 (34)	8.5 (21)	23.0	7.8	n/a
HR-SEGXEZ-01	31904	23.9 (34)	4.5 (21)	28.5	7.2	n/a
HR-UFFHVS-01	31905	29.2 (34)	5.6 (21)	34.8	6.4	n/a
HR-T84IYK-01	31906	25.8 (34)	8.5 (21)	34.3	6.4	n/a
HR-BIN4MA-01	31907	9.0 (34)	9.9 (21)	18.8	8.2	n/a
HR-09ZZEV-01	31908	6.3 (34)	4.9 (21)	11.2	9.1	n/a
HR-N1T1Y0-01	32001	6.3 (34)	3.8 (21)	10.1	9.3	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-JIXYPO-01	32002	9.8 (34)	5.4 (21)	15.2	8.6	n/a
HR-MCP8EY-01	32003	13.9 (34)	6.4 (21)	20.4	8.1	n/a
HR-2CJE36-01	32004	22.3 (34)	3.8 (21)	26.2	7.4	n/a
HR-LG5394-01	32005	28.8 (34)	4.9 (21)	33.7	6.5	n/a
HR-5G21PW-01	32006	24.0 (34)	7.2 (21)	31.2	6.9	n/a
HR-810R97-01	32007	8.9 (34)	5.5 (21)	14.4	8.7	n/a
HR-X9ZFLQ-01	32008	6.1 (34)	4.1 (21)	10.1	9.3	n/a
HR-1IQH2E-01	32101	6.0 (34)	4.4 (21)	10.5	9.3	n/a
HR-AC4PTY-01	32102	10.1 (34)	6.8 (21)	16.9	8.4	n/a
HR-DRQGF4-01	32103	14.6 (34)	7.9 (21)	22.6	7.8	n/a
HR-5KVMZV-01	32104	24.1 (34)	4.6 (21)	28.7	7.1	n/a
HR-2AB5BD-01	32105	29.4 (34)	5.5 (21)	34.9	6.4	n/a
HR-V9H9FO-01	32107	9.0 (34)	10.1 (21)	19.1	8.2	n/a
HR-S3EFQ4-01	32108	6.4 (34)	4.9 (21)	11.3	9.1	n/a
HR-FH2OOK-01	32201	6.3 (34)	3.8 (21)	10.1	9.3	n/a
HR-I4LT7X-01	32202	9.9 (34)	5.4 (21)	15.3	8.6	n/a
HR-S54EZV-01	32203	13.9 (34)	6.5 (21)	20.4	8.1	n/a
HR-FQI9UE-01	32204	22.5 (34)	3.8 (21)	26.3	7.4	n/a
HR-3O0LSY-01	32205	28.9 (34)	4.8 (21)	33.8	6.5	n/a
HR-XKNSJR-01	32206	24.1 (34)	6.9 (21)	31.1	6.9	n/a
HR-NZDW0G-01	32207	9.0 (34)	5.4 (21)	14.4	8.7	n/a
HR-5YM661-01	32208	6.2 (34)	4.1 (21)	10.2	9.3	n/a
HR-LZ9ZPW-01	32301	6.2 (34)	4.5 (21)	10.7	9.2	n/a
HR-T436UO-01	32302	10.2 (34)	6.9 (21)	17.1	8.4	n/a
HR-66PBM3-01	32303	14.9 (34)	7.8 (21)	22.7	7.8	n/a
HR-FUFAYZ-01	32304	24.4 (34)	4.6 (21)	29.0	7.1	n/a
HR-9MH4TA-01	32305	29.7 (34)	5.5 (21)	35.2	6.3	n/a
HR-NF08EH-01	32306	26.2 (34)	8.6 (21)	34.9	6.4	n/a
HR-XJ75R3-01	32307	9.2 (34)	10.1 (21)	19.3	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-FPERV3-01	32308	6.5 (34)	4.9 (21)	11.4	9.1	n/a
HR-XDX9NR-01	32401	6.4 (34)	3.9 (21)	10.4	9.3	n/a
HR-0HW222-01	32402	10.0 (34)	5.5 (21)	15.5	8.6	n/a
HR-2LPK4G-01	32403	14.2 (34)	6.5 (21)	20.7	8.0	n/a
HR-1SXFUU-01	32404	22.8 (34)	3.9 (21)	26.7	7.3	n/a
HR-RPWM63-01	32405	29.3 (34)	4.8 (21)	34.1	6.4	n/a
HR-R1T5TG-01	32406	24.5 (34)	7.1 (21)	31.6	6.8	n/a
HR-CVU73A-01	32407	9.1 (34)	5.7 (21)	14.8	8.6	n/a
HR-QXSGQG-01	32408	6.3 (34)	4.1 (21)	10.4	9.3	n/a
HR-PO0LGH-01	32501	6.2 (34)	4.4 (21)	10.7	9.2	n/a
HR-FWM759-01	32502	10.4 (34)	7.2 (21)	17.5	8.3	n/a
HR-0A9V22-01	32503	15.1 (34)	7.8 (21)	22.9	7.8	n/a
HR-5S5PR0-01	32504	24.7 (34)	4.6 (21)	29.3	7.1	n/a
HR-QVA9SJ-01	32505	30.0 (34)	5.6 (21)	35.6	6.3	n/a
HR-A8KWAJ-01	32506	26.5 (34)	8.7 (21)	35.2	6.3	n/a
HR-4YXVK5-01	32507	9.3 (34)	10.0 (21)	19.4	8.2	n/a
HR-Z6VAQ4-01	32508	6.7 (34)	4.9 (21)	11.6	9.1	n/a
HR-PWGSN8-01	32601	16.3 (34)	6.0 (21)	22.3	7.8	n/a
HR-8V716T-01	32602	18.6 (34)	6.7 (21)	25.2	7.4	n/a
HR-SWA6N2-01	32603	23.4 (34)	7.8 (21)	31.2	6.8	n/a
HR-G0QVAI-01	32604	29.1 (34)	5.1 (21)	34.2	6.4	n/a
HR-GJ3HZ2-01	32605	31.1 (34)	5.7 (21)	36.8	6.1	n/a
HR-GJQ8ZE-01	32606	29.7 (34)	7.7 (21)	37.5	6.1	n/a
HR-M8SHVX-01	32607	20.0 (34)	8.1 (21)	28.1	7.2	n/a
HR-A0YC8G-01	32608	16.8 (34)	6.6 (21)	23.4	7.7	n/a
HR-C6YRDX-01	3801	7.7 (34)	2.8 (21)	10.5	9.2	n/a
HR-4QUAYP-01	3802	14.7 (34)	6.7 (21)	21.4	7.9	n/a
HR-KAETX9-01	3803	22.2 (34)	6.1 (21)	28.4	7.2	n/a
HR-QKN4RB-01	3804	22.9 (34)	3.4 (21)	26.3	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-3JAN93-01	3805	32.7 (34)	4.5 (21)	37.2	6.1	n/a
HR-QX5O45-01	3806	30.2 (34)	5.4 (21)	35.5	6.3	n/a
HR-NU6YLV-01	3807	30.1 (34)	4.6 (21)	34.7	6.4	n/a
HR-U90GRW-01	3808	22.3 (34)	4.3 (21)	26.5	7.3	n/a
HR-QRLU3U-01	3809	25.7 (34)	4.0 (21)	29.6	7.0	n/a
HR-O9M9YS-01	3901	5.0 (34)	4.2 (21)	9.2	9.4	n/a
HR-PIXRGV-01	3902	8.9 (34)	6.9 (21)	15.7	8.5	n/a
HR-EUSMVT-01	3903	13.6 (34)	8.9 (21)	22.5	7.8	n/a
HR-WV92XZ-01	3904	22.0 (34)	4.7 (21)	26.7	7.3	n/a
HR-CLFNSU-01	3905	27.5 (34)	5.6 (21)	33.1	6.6	n/a
HR-O2EPO0-01	3906	29.7 (34)	8.0 (21)	37.7	6.0	n/a
HR-E4RHL4-01	3907	17.8 (34)	6.6 (21)	24.4	7.6	n/a
HR-Z7DJK0-01	3908	10.1 (34)	9.1 (21)	19.2	8.2	n/a
HR-AE2IU3-01	3909	4.2 (34)	9.4 (21)	13.6	8.8	n/a
Averages	162x (Total)	16.4	6.0	22.3	7.8	n/a
Maximum Loads and Minimum Ratings		32.7	10.1	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 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-UDYI6E-01

Generated on 25 Sep 2025 using Hero 4.1

Property

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



Accredited assessor

Name Haylea Edwards
Business name Efficient Living Pty Ltd
Email haylea@efficientliving.com.au
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-UDYI6E-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.

Thermal performance Star rating



**NATIONWIDE
HOUSE**
ENERGY RATING SCHEME®

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

For more information on your dwelling's rating see:
www.nathers.gov.au

NCC heating and cooling maximum loads MJ/m².yr

Limits taken from ABCB Standard 2022

	Heating	Cooling
Average load	12.0	8.6
Maximum load	31.6	20.5
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/m².yr)	Cooling load (load limit) (MJ/m².yr)	Total load (MJ/m².yr)	Star Rating	Whole of Home Rating
HR-91TH17-01	41001	16.7 (34)	6.8 (21)	23.5	7.7	n/a
HR-NNZWJK-01	41002	5.3 (34)	5.4 (21)	10.7	9.2	n/a
HR-YTA8UQ-01	41003	8.8 (34)	16.1 (21)	24.9	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-IJ72T8-01	41004	21.5 (34)	13.2 (21)	34.6	6.4	n/a
HR-FT3Z88-01	41005	18.9 (34)	16.7 (21)	35.6	6.3	n/a
HR-BVHGVO-01	41006	17.4 (34)	7.0 (21)	24.4	7.6	n/a
HR-LO1RQQ-01	41007	28.0 (34)	9.6 (21)	37.6	6.0	n/a
HR-NR6XHE-01	41008	13.9 (34)	7.8 (21)	21.7	7.9	n/a
HR-HH61GM-01	4101	3.5 (34)	5.4 (21)	8.9	9.5	n/a
HR-MAABZR-01	4102	5.8 (34)	13.8 (21)	19.6	8.1	n/a
HR-TB4X33-01	4103	12.0 (34)	15.2 (21)	27.2	7.3	n/a
HR-P1WSIB-01	4104	7.7 (34)	20.5 (21)	28.2	7.2	n/a
HR-K493A2-01	4105	11.7 (34)	11.1 (21)	22.8	7.8	n/a
HR-CVYYUH-01	41101	14.7 (34)	8.6 (21)	23.4	7.7	n/a
HR-MXEKOK-01	41102	5.0 (34)	5.3 (21)	10.3	9.3	n/a
HR-8RKON9-01	41103	9.1 (34)	15.3 (21)	24.4	7.6	n/a
HR-8XOJD3-01	41104	23.9 (34)	13.7 (21)	37.6	6.1	n/a
HR-4NUNP0-01	41105	18.5 (34)	12.6 (21)	31.1	6.9	n/a
HR-ODRIFU-01	41106	19.9 (34)	6.6 (21)	26.5	7.4	n/a
HR-ALJGDD-01	41107	26.5 (34)	10.0 (21)	36.5	6.2	n/a
HR-ZJNUF9-01	41108	12.9 (34)	10.6 (21)	23.5	7.7	n/a
HR-THHCT5-01	41201	14.7 (34)	9.7 (21)	24.4	7.6	n/a
HR-3XKIRL-01	41202	5.1 (34)	5.4 (21)	10.4	9.3	n/a
HR-7LUHM3-01	41203	9.2 (34)	15.3 (21)	24.4	7.6	n/a
HR-D6LZQI-01	41204	18.3 (34)	12.3 (21)	30.6	6.9	n/a
HR-4PJ37Z-01	41205	18.6 (34)	12.4 (21)	31.0	6.9	n/a
HR-4JZQQK-01	41206	20.1 (34)	6.7 (21)	26.7	7.3	n/a
HR-P27280-01	41207	26.5 (34)	10.2 (21)	36.7	6.2	n/a
HR-O9GBQU-01	41208	13.0 (34)	10.2 (21)	23.2	7.7	n/a
HR-XLQVU0-01	41301	14.9 (34)	10.6 (21)	25.4	7.4	n/a
HR-I1JFB6-01	41302	5.3 (34)	5.5 (21)	10.8	9.2	n/a
HR-K5F4HG-01	41303	9.3 (34)	15.3 (21)	24.6	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-ZH6ZA3-01	41304	24.4 (34)	13.6 (21)	38.0	6.0	n/a
HR-2T4UFL-01	41305	19.3 (34)	12.6 (21)	31.9	6.8	n/a
HR-AEOZOL-01	41306	20.3 (34)	6.6 (21)	26.9	7.3	n/a
HR-A8WI98-01	41307	26.6 (34)	10.2 (21)	36.8	6.2	n/a
HR-A5NFJ1-01	41308	13.3 (34)	10.1 (21)	23.4	7.7	n/a
HR-A7ON2U-01	41401	14.8 (34)	10.7 (21)	25.5	7.4	n/a
HR-416IZ1-01	41402	5.3 (34)	5.6 (21)	10.8	9.2	n/a
HR-ST8TOH-01	41403	9.4 (34)	15.6 (21)	25.0	7.4	n/a
HR-VDBEUT-01	41404	24.5 (34)	13.5 (21)	38.0	6.0	n/a
HR-0572BD-01	41405	19.0 (34)	12.7 (21)	31.7	6.8	n/a
HR-E009AL-01	41406	20.4 (34)	6.5 (21)	26.9	7.3	n/a
HR-2FE1LA-01	41407	26.5 (34)	10.0 (21)	36.6	6.2	n/a
HR-BX77MN-01	41408	13.4 (34)	10.2 (21)	23.5	7.7	n/a
HR-39N546-01	41501	14.7 (34)	13.1 (21)	27.8	7.2	n/a
HR-JI421X-01	41502	5.3 (34)	5.5 (21)	10.9	9.2	n/a
HR-00GNLX-01	41503	9.5 (34)	15.8 (21)	25.3	7.4	n/a
HR-YJC4L1-01	41504	18.0 (34)	11.7 (21)	29.7	7.0	n/a
HR-76G3FC-01	41505	19.1 (34)	12.8 (21)	31.9	6.8	n/a
HR-S1SSJ1-01	41506	20.6 (34)	6.6 (21)	27.2	7.3	n/a
HR-NTGX35-01	41507	26.3 (34)	10.1 (21)	36.4	6.2	n/a
HR-2LQNZI-01	41508	13.2 (34)	10.0 (21)	23.2	7.7	n/a
HR-11Q3U7-01	41601	14.6 (34)	13.9 (21)	28.5	7.2	n/a
HR-5ZA7WA-01	41602	5.4 (34)	5.5 (21)	10.9	9.2	n/a
HR-G98ALU-01	41603	9.5 (34)	16.0 (21)	25.5	7.4	n/a
HR-XFRO17-01	41604	18.1 (34)	11.6 (21)	29.7	7.0	n/a
HR-2ENSB5-01	41605	19.2 (34)	12.9 (21)	32.1	6.7	n/a
HR-4T1V3H-01	41606	20.7 (34)	6.6 (21)	27.3	7.3	n/a
HR-WJ65N9-01	41607	27.9 (34)	10.0 (21)	38.0	6.0	n/a
HR-BHHEG5-01	41608	13.2 (34)	10.5 (21)	23.6	7.7	n/a

Summary of all dwellings

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HR-N17DUD-01	41701	14.5 (34)	18.3 (21)	32.8	6.6	n/a
HR-AMVDES-01	41702	5.5 (34)	5.5 (21)	10.9	9.2	n/a
HR-UI84BN-01	41703	9.6 (34)	16.2 (21)	25.8	7.4	n/a
HR-D8CRSO-01	41704	17.3 (34)	11.5 (21)	28.8	7.1	n/a
HR-DURN2H-01	41705	19.3 (34)	12.8 (21)	32.1	6.7	n/a
HR-PT2H44-01	41706	20.9 (34)	6.5 (21)	27.4	7.3	n/a
HR-A6MGXU-01	41707	26.3 (34)	10.0 (21)	36.3	6.2	n/a
HR-WDYBZI-01	41708	13.1 (34)	10.5 (21)	23.6	7.7	n/a
HR-MBVS1O-01	41801	14.8 (34)	13.5 (21)	28.4	7.2	n/a
HR-M5S3UX-01	41802	15.0 (34)	7.0 (21)	22.0	7.9	n/a
HR-QOHMCG-01	41803	18.7 (34)	18.6 (21)	37.2	6.1	n/a
HR-WVTW8H-01	41804	25.0 (34)	12.1 (21)	37.1	6.1	n/a
HR-7H04MA-01	41805	20.5 (34)	12.7 (21)	33.1	6.6	n/a
HR-PNJ81G-01	41806	24.1 (34)	8.0 (21)	32.1	6.7	n/a
HR-8R371U-01	41807	27.2 (34)	9.7 (21)	37.0	6.1	n/a
HR-YVC1MK-01	41808	18.2 (34)	13.6 (21)	31.8	6.8	n/a
HR-WXC73W-01	4201	4.3 (34)	5.2 (21)	9.6	9.4	n/a
HR-EUSUSA-01	4202	3.1 (34)	18.4 (21)	21.5	7.9	n/a
HR-7V76GO-01	4203	11.4 (34)	19.7 (21)	31.0	6.9	n/a
HR-BPDIJC-01	4204	5.0 (34)	16.6 (21)	21.5	7.9	n/a
HR-Y09GFS-01	4205	15.3 (34)	8.5 (21)	23.8	7.7	n/a
HR-EWPRD1-01	4301	6.4 (34)	4.9 (21)	11.3	9.1	n/a
HR-920QN5-01	4302	6.6 (34)	18.2 (21)	24.8	7.5	n/a
HR-7TX5PR-01	4303	15.8 (34)	13.8 (21)	29.6	7.0	n/a
HR-7KNVDX-01	4304	13.5 (34)	19.7 (21)	33.2	6.6	n/a
HR-9K465I-01	4305	18.3 (34)	7.9 (21)	26.1	7.4	n/a
HR-L62DVF-01	4401	21.7 (34)	6.3 (21)	27.9	7.2	n/a
HR-PTUCT8-01	4402	3.7 (34)	6.1 (21)	9.8	9.4	n/a
HR-EDJ11P-01	4403	6.4 (34)	18.1 (21)	24.5	7.6	n/a

Summary of all dwellings

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HR-GNX5OD-01	4404	16.5 (34)	13.6 (21)	30.2	6.9	n/a
HR-IUBN67-01	4405	14.2 (34)	19.4 (21)	33.5	6.6	n/a
HR-FNDTZK-01	4406	15.2 (34)	7.6 (21)	22.7	7.8	n/a
HR-YQ3YKJ-01	4407	28.4 (34)	6.6 (21)	35.0	6.4	n/a
HR-CFAX4P-01	4501	13.1 (34)	6.9 (21)	20.0	8.1	n/a
HR-B8949Y-01	4502	3.7 (34)	5.8 (21)	9.4	9.4	n/a
HR-V7IHZU-01	4503	6.6 (34)	18.2 (21)	24.8	7.5	n/a
HR-UXMLZC-01	4504	17.0 (34)	13.7 (21)	30.7	6.9	n/a
HR-NN0QFP-01	4505	14.7 (34)	19.2 (21)	33.9	6.5	n/a
HR-0S3GV2-01	4506	13.9 (34)	7.5 (21)	21.4	7.9	n/a
HR-OAA5D8-01	4507	21.7 (34)	7.8 (21)	29.5	7.1	n/a
HR-BVU758-01	4508	16.1 (34)	8.4 (21)	24.5	7.6	n/a
HR-KMMP12-01	4601	13.6 (34)	6.6 (21)	20.2	8.1	n/a
HR-NLVI8F-01	4602	3.9 (34)	5.7 (21)	9.6	9.4	n/a
HR-GR5BJM-01	4603	6.8 (34)	18.2 (21)	25.0	7.4	n/a
HR-JJTZCD-01	4604	17.6 (34)	13.0 (21)	30.6	6.9	n/a
HR-0GM2OY-01	4605	15.2 (34)	19.1 (21)	34.3	6.4	n/a
HR-U7NHHJ-01	4606	14.3 (34)	7.3 (21)	21.7	7.9	n/a
HR-GFMWEH-01	4607	25.0 (34)	11.6 (21)	36.5	6.2	n/a
HR-6P2MLD-01	4608	11.0 (34)	8.3 (21)	19.4	8.2	n/a
HR-G9BZX4-01	4701	14.0 (34)	6.9 (21)	20.9	8.0	n/a
HR-04L9KL-01	4702	4.1 (34)	5.7 (21)	9.7	9.4	n/a
HR-IUN6XM-01	4703	7.0 (34)	17.9 (21)	24.9	7.5	n/a
HR-DSOOQ1-01	4704	18.1 (34)	13.0 (21)	31.1	6.9	n/a
HR-S8ZE0U-01	4705	15.7 (34)	19.2 (21)	34.9	6.4	n/a
HR-RGV0ZS-01	4706	14.8 (34)	7.1 (21)	21.9	7.9	n/a
HR-U37XZ4-01	4707	25.4 (34)	11.0 (21)	36.4	6.2	n/a
HR-AG5OUL-01	4708	11.4 (34)	8.3 (21)	19.7	8.1	n/a
HR-JBI37R-01	4801	14.3 (34)	6.9 (21)	21.2	7.9	n/a

Summary of all dwellings

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HR-Y4BFOF-01	4802	4.2 (34)	5.6 (21)	9.8	9.4	n/a
HR-0AR3HT-01	4803	7.2 (34)	17.6 (21)	24.8	7.5	n/a
HR-QLXSS0-01	4804	18.5 (34)	13.0 (21)	31.5	6.8	n/a
HR-XIO02C-01	4805	16.1 (34)	18.6 (21)	34.7	6.4	n/a
HR-4GRRKX-01	4806	15.0 (34)	7.2 (21)	22.3	7.8	n/a
HR-8KA0II-01	4807	25.7 (34)	10.8 (21)	36.6	6.2	n/a
HR-W19GXH-01	4808	11.6 (34)	8.1 (21)	19.8	8.1	n/a
HR-5XOFVE-01	4901	14.7 (34)	6.7 (21)	21.4	7.9	n/a
HR-TLMEXC-01	4902	4.3 (34)	5.5 (21)	9.8	9.4	n/a
HR-TSZDQU-01	4903	7.5 (34)	17.6 (21)	25.1	7.4	n/a
HR-O8NCQA-01	4904	19.0 (34)	13.3 (21)	32.3	6.7	n/a
HR-BZY0QN-01	4905	16.6 (34)	18.6 (21)	35.1	6.4	n/a
HR-CO076F-01	4906	15.4 (34)	7.2 (21)	22.6	7.8	n/a
HR-BTNVHI-01	4907	26.0 (34)	10.6 (21)	36.7	6.2	n/a
HR-43X53N-01	4908	12.1 (34)	8.4 (21)	20.5	8.1	n/a
HR-CMU9IP-01	5001	14.7 (34)	14.3 (21)	29.0	7.1	n/a
HR-CLZ2ND-01	5002	3.0 (34)	10.7 (21)	13.7	8.8	n/a
HR-8WHGAY-01	5003	3.4 (34)	7.1 (21)	10.4	9.3	n/a
HR-S2CYM7-01	5004	11.6 (34)	9.5 (21)	21.0	7.9	n/a
HR-D955HR-01	51001	23.8 (34)	7.3 (21)	31.1	6.9	n/a
HR-JI426P-01	51002	7.2 (34)	6.7 (21)	13.9	8.8	n/a
HR-C5PW8T-01	51003	1.3 (34)	5.2 (21)	6.5	9.9	n/a
HR-79LM4F-01	51004	3.9 (34)	5.0 (21)	8.9	9.5	n/a
HR-EFH5ZY-01	51005	4.3 (34)	5.1 (21)	9.4	9.4	n/a
HR-GPL204-01	51006	1.3 (34)	5.0 (21)	6.3	9.9	n/a
HR-JMJOMJ-01	51007	5.1 (34)	5.8 (21)	10.9	9.2	n/a
HR-KLS2JB-01	51008	29.2 (34)	8.8 (21)	38.0	6.0	n/a
HR-MVS0SF-01	5101	2.1 (34)	5.4 (21)	7.5	9.7	n/a
HR-N97JTU-01	51101	24.9 (34)	6.9 (21)	31.8	6.8	n/a

Summary of all dwellings

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HR-OKMQY9-01	51102	8.4 (34)	6.1 (21)	14.6	8.7	n/a
HR-K7BQ3T-01	51103	1.8 (34)	4.5 (21)	6.3	9.9	n/a
HR-LD07UE-01	51104	4.4 (34)	4.7 (21)	9.1	9.4	n/a
HR-YRP4LS-01	51105	5.0 (34)	4.9 (21)	9.8	9.4	n/a
HR-7TO29S-01	51106	1.6 (34)	4.3 (21)	5.9	10.0	n/a
HR-W7KQ8D-01	51107	5.6 (34)	5.9 (21)	11.5	9.1	n/a
HR-TY5JWL-01	51108	23.9 (34)	6.8 (21)	30.7	6.9	n/a
HR-JJGfmt-01	51201	25.3 (34)	6.9 (21)	32.2	6.7	n/a
HR-LYVL51-01	51202	8.7 (34)	6.1 (21)	14.8	8.7	n/a
HR-2WAVNW-01	51203	1.8 (34)	4.4 (21)	6.2	9.9	n/a
HR-7OHL4C-01	51204	4.6 (34)	4.6 (21)	9.2	9.4	n/a
HR-9YY75Q-01	51205	5.1 (34)	4.7 (21)	9.8	9.4	n/a
HR-53XCy6-01	51206	1.7 (34)	4.3 (21)	6.0	10.0	n/a
HR-LOH2EX-01	51207	5.6 (34)	6.0 (21)	11.7	9.1	n/a
HR-YZ2S0A-01	51208	24.2 (34)	6.8 (21)	31.0	6.9	n/a
HR-KV0U5E-01	51301	25.4 (34)	7.1 (21)	32.5	6.7	n/a
HR-RZBDMD-01	51302	8.7 (34)	6.0 (21)	14.7	8.7	n/a
HR-TC4IEJ-01	51303	1.9 (34)	4.4 (21)	6.3	9.9	n/a
HR-I10R8U-01	51304	4.7 (34)	4.6 (21)	9.3	9.4	n/a
HR-NF7YU1-01	51305	5.2 (34)	4.7 (21)	9.9	9.3	n/a
HR-8RV49X-01	51306	1.7 (34)	4.2 (21)	5.9	10.0	n/a
HR-KUY9DJ-01	51307	5.7 (34)	6.7 (21)	12.4	8.9	n/a
HR-DVBA20-01	51308	24.2 (34)	7.0 (21)	31.2	6.8	n/a
HR-LUMF6V-01	51401	25.7 (34)	7.0 (21)	32.7	6.7	n/a
HR-J5WHWO-01	51402	8.9 (34)	6.1 (21)	15.0	8.6	n/a
HR-EXLH83-01	51403	2.0 (34)	4.4 (21)	6.4	9.9	n/a
HR-1UEVYI-01	51404	4.8 (34)	4.7 (21)	9.5	9.4	n/a
HR-KACI77-01	51405	5.3 (34)	4.8 (21)	10.1	9.3	n/a
HR-2R5UEP-01	51406	1.8 (34)	4.2 (21)	6.0	10.0	n/a

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HR-BRT579-01	51407	5.7 (34)	7.4 (21)	13.1	8.9	n/a
HR-2GHJOK-01	51408	24.4 (34)	7.4 (21)	31.8	6.8	n/a
HR-TII3OO-01	51501	29.2 (34)	8.0 (21)	37.2	6.1	n/a
HR-8XW4GQ-01	51502	9.0 (34)	6.3 (21)	15.2	8.6	n/a
HR-FH18N5-01	51503	2.0 (34)	4.4 (21)	6.4	9.9	n/a
HR-J6GWBY-01	51504	4.8 (34)	4.7 (21)	9.5	9.4	n/a
HR-8XW7DL-01	51505	5.4 (34)	4.8 (21)	10.2	9.3	n/a
HR-6MG8R1-01	51506	1.8 (34)	4.2 (21)	6.0	9.9	n/a
HR-BICWDQ-01	51507	5.7 (34)	8.1 (21)	13.8	8.8	n/a
HR-11AB7D-01	51508	24.2 (34)	7.4 (21)	31.6	6.8	n/a
HR-MVXYJ9-01	51601	29.9 (34)	8.1 (21)	38.0	6.0	n/a
HR-3BOZS1-01	51602	9.0 (34)	6.6 (21)	15.6	8.5	n/a
HR-XAOEJ6-01	51603	2.0 (34)	4.4 (21)	6.5	9.9	n/a
HR-038GBP-01	51604	4.9 (34)	4.7 (21)	9.6	9.4	n/a
HR-OQ56EX-01	51605	5.5 (34)	4.7 (21)	10.2	9.3	n/a
HR-U7EKJN-01	51606	1.9 (34)	4.2 (21)	6.0	9.9	n/a
HR-ITXV4H-01	51607	5.6 (34)	8.4 (21)	14.0	8.8	n/a
HR-KR0RQB-01	51608	23.5 (34)	7.4 (21)	30.9	6.9	n/a
HR-XI0GJI-01	51701	26.0 (34)	7.6 (21)	33.6	6.5	n/a
HR-HP5B3M-01	51702	9.1 (34)	6.7 (21)	15.8	8.5	n/a
HR-ESR6OH-01	51703	2.1 (34)	4.4 (21)	6.4	9.9	n/a
HR-LF21NV-01	51704	5.0 (34)	4.6 (21)	9.6	9.4	n/a
HR-05FO5H-01	51705	5.6 (34)	4.8 (21)	10.3	9.3	n/a
HR-820VG1-01	51706	2.0 (34)	4.1 (21)	6.1	9.9	n/a
HR-G1L7IL-01	51707	5.2 (34)	8.6 (21)	13.9	8.8	n/a
HR-7WMHGW-01	51708	23.0 (34)	7.4 (21)	30.4	6.9	n/a
HR-64B8K0-01	51801	26.0 (34)	7.9 (21)	33.9	6.5	n/a
HR-A49T65-01	51802	9.1 (34)	7.1 (21)	16.2	8.4	n/a
HR-P4BRDG-01	51803	2.1 (34)	4.3 (21)	6.4	9.9	n/a

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HR-ZMHK7P-01	51804	5.1 (34)	4.6 (21)	9.7	9.4	n/a
HR-M8WR3A-01	51805	5.7 (34)	4.7 (21)	10.4	9.3	n/a
HR-VJD6KF-01	51806	1.9 (34)	4.1 (21)	6.1	9.9	n/a
HR-JVQY84-01	51807	4.8 (34)	9.2 (21)	14.0	8.8	n/a
HR-CUHL5L-01	51808	29.2 (34)	8.6 (21)	37.8	6.0	n/a
HR-3C12VC-01	51901	27.8 (34)	7.0 (21)	34.9	6.4	n/a
HR-M1HBL8-01	51902	17.2 (34)	10.8 (21)	28.0	7.2	n/a
HR-Q82M9V-01	51903	7.8 (34)	6.6 (21)	14.5	8.7	n/a
HR-2R936Z-01	51904	14.6 (34)	6.5 (21)	21.1	7.9	n/a
HR-LOFWC9-01	51905	15.9 (34)	6.7 (21)	22.6	7.8	n/a
HR-CQH05X-01	51906	7.7 (34)	6.4 (21)	14.2	8.7	n/a
HR-0KOQ8R-01	51907	10.6 (34)	11.3 (21)	21.9	7.9	n/a
HR-1XR7HZ-01	51908	28.6 (34)	9.1 (21)	37.8	6.0	n/a
HR-3XEBHT-01	5201	3.4 (34)	8.1 (21)	11.5	9.1	n/a
HR-KF14DO-01	5202	0.4 (34)	6.4 (21)	6.8	9.9	n/a
HR-X7SLEM-01	5203	1.4 (34)	6.0 (21)	7.5	9.8	n/a
HR-IPB8D5-01	5204	1.7 (34)	6.1 (21)	7.8	9.7	n/a
HR-Q7K3YF-01	5205	0.3 (34)	6.0 (21)	6.3	9.9	n/a
HR-O4J9AE-01	5206	6.8 (34)	7.7 (21)	14.4	8.7	n/a
HR-VTQE8M-01	5301	5.6 (34)	7.4 (21)	13.0	8.9	n/a
HR-G0YTIF-01	5302	0.8 (34)	5.7 (21)	6.5	9.9	n/a
HR-KP57CI-01	5303	2.6 (34)	5.4 (21)	7.9	9.7	n/a
HR-15B9NP-01	5304	2.9 (34)	5.4 (21)	8.3	9.6	n/a
HR-QMLI46-01	5305	0.7 (34)	5.2 (21)	6.0	10.0	n/a
HR-FP846Z-01	5306	8.9 (34)	7.3 (21)	16.3	8.4	n/a
HR-M9ZNGF-01	5401	31.6 (34)	5.8 (21)	37.5	6.1	n/a
HR-TPTZIP-01	5402	6.5 (34)	7.2 (21)	13.6	8.8	n/a
HR-OW8GKU-01	5403	0.9 (34)	5.5 (21)	6.4	9.9	n/a
HR-NASD6E-01	5404	2.8 (34)	5.3 (21)	8.1	9.6	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-MK5RP3-01	5405	3.2 (34)	5.5 (21)	8.7	9.6	n/a
HR-C2NIOU-01	5406	0.9 (34)	5.3 (21)	6.1	9.9	n/a
HR-NSJ1WQ-01	5407	4.8 (34)	4.9 (21)	9.7	9.4	n/a
HR-JGQBYF-01	5408	31.3 (34)	5.5 (21)	36.8	6.2	n/a
HR-WKWEX0-01	5501	28.1 (34)	9.2 (21)	37.2	6.1	n/a
HR-XCTDD2-01	5502	6.1 (34)	7.0 (21)	13.1	8.9	n/a
HR-FM3CIQ-01	5503	1.0 (34)	5.5 (21)	6.5	9.9	n/a
HR-BO29LK-01	5504	3.0 (34)	5.3 (21)	8.3	9.6	n/a
HR-FUY99O-01	5505	3.5 (34)	5.3 (21)	8.8	9.5	n/a
HR-JYNULT-01	5506	0.9 (34)	5.3 (21)	6.2	9.9	n/a
HR-LNYW4J-01	5507	4.1 (34)	5.0 (21)	9.1	9.4	n/a
HR-YIKE78-01	5508	26.7 (34)	8.7 (21)	35.4	6.3	n/a
HR-9P82RG-01	5601	28.7 (34)	8.9 (21)	37.6	6.0	n/a
HR-M6QQ4A-01	5602	6.3 (34)	7.0 (21)	13.3	8.8	n/a
HR-2ENYYE-01	5603	1.1 (34)	5.3 (21)	6.5	9.9	n/a
HR-2LAGPX-01	5604	3.2 (34)	5.2 (21)	8.4	9.6	n/a
HR-L2WED6-01	5605	3.7 (34)	5.3 (21)	9.0	9.5	n/a
HR-WCWWSI-01	5606	1.0 (34)	5.1 (21)	6.1	9.9	n/a
HR-VZAWQB-01	5607	4.4 (34)	5.0 (21)	9.4	9.4	n/a
HR-03ADK1-01	5608	27.3 (34)	8.8 (21)	36.2	6.2	n/a
HR-Q7750Y-01	5701	22.6 (34)	7.2 (21)	29.8	7.0	n/a
HR-JZC2EU-01	5702	6.4 (34)	6.9 (21)	13.4	8.8	n/a
HR-TO68NW-01	5703	1.1 (34)	5.2 (21)	6.3	9.9	n/a
HR-X9HQNT-01	5704	3.4 (34)	5.2 (21)	8.5	9.6	n/a
HR-QZQC5Y-01	5705	3.8 (34)	5.2 (21)	8.9	9.5	n/a
HR-CM04BS-01	5706	1.0 (34)	5.0 (21)	6.0	10.0	n/a
HR-UPLSXZ-01	5707	4.5 (34)	5.2 (21)	9.7	9.4	n/a
HR-8ZWS1F-01	5708	27.7 (34)	8.7 (21)	36.4	6.2	n/a
HR-QB61DD-01	5801	23.1 (34)	7.3 (21)	30.3	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-59JDRZ-01	5802	6.8 (34)	6.8 (21)	13.6	8.8	n/a
HR-S4Z60W-01	5803	1.2 (34)	5.1 (21)	6.2	9.9	n/a
HR-GFSB3N-01	5804	3.5 (34)	5.1 (21)	8.6	9.6	n/a
HR-BTJ8CD-01	5805	4.0 (34)	5.1 (21)	9.1	9.4	n/a
HR-D9A62C-01	5806	1.1 (34)	4.9 (21)	5.9	10.0	n/a
HR-Z1DG5I-01	5807	4.8 (34)	5.4 (21)	10.2	9.3	n/a
HR-T9GBV3-01	5808	28.4 (34)	8.8 (21)	37.1	6.1	n/a
HR-YK5DE4-01	5901	23.4 (34)	7.2 (21)	30.6	6.9	n/a
HR-15AP1P-01	5902	7.0 (34)	7.0 (21)	13.9	8.8	n/a
HR-0EE31U-01	5903	1.2 (34)	5.1 (21)	6.3	9.9	n/a
HR-FOGE1Q-01	5904	3.7 (34)	5.0 (21)	8.7	9.5	n/a
HR-WDNNBV-01	5905	4.1 (34)	5.1 (21)	9.1	9.4	n/a
HR-7UYV63-01	5906	1.2 (34)	4.9 (21)	6.1	9.9	n/a
HR-0MQGMH-01	5907	4.9 (34)	5.6 (21)	10.4	9.3	n/a
HR-VDRA3F-01	5908	28.8 (34)	8.8 (21)	37.6	6.1	n/a
Averages	279x (Total)	12.0	8.6	20.6	8.1	n/a
Maximum Loads and Minimum Ratings		31.6	20.5	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-F7E3KY-01

Generated on 25 Sep 2025 using Hero 4.1

Property

Address 1 Crescent Street, Holroyd, NSW, 2142

Lot/DP

NatHERS climate zone 56 - Mascot AMO



Accredited assessor

Name Haylea Edwards
Business name Efficient Living Pty Ltd
Email haylea@efficientliving.com.au
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-F7E3KY-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.

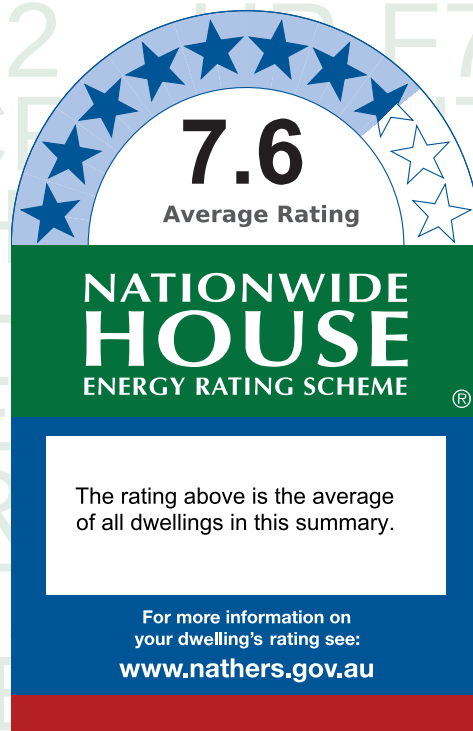
The NCC, and associated ABCB Standards and support material, can be accessed at www.abcb.gov.au.

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-CFUR5A-01	6001	12.2 (34)	19.1 (21)	31.2	6.8	n/a
HR-RZ37V4-01	6002	0.7 (34)	17.7 (21)	18.4	8.3	n/a
HR-RFW7ZF-01	6003	0.4 (34)	21.0 (21)	21.4	7.9	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	15.0	9.2
Maximum load	33.9	21.0
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-FZ4US3-01	6004	0.4 (34)	18.5 (21)	18.9	8.2	n/a
HR-UFH7EJ-01	6005	1.0 (34)	19.1 (21)	20.1	8.1	n/a
HR-VJIP3N-01	6006	11.4 (34)	10.7 (21)	22.0	7.9	n/a
HR-CXZ94E-01	61001	31.3 (34)	6.2 (21)	37.5	6.1	n/a
HR-1DBWA2-01	61002	24.2 (34)	7.7 (21)	31.8	6.8	n/a
HR-63ELLT-01	61003	15.4 (34)	18.6 (21)	34.0	6.5	n/a
HR-WB2N9X-01	61004	4.9 (34)	7.9 (21)	12.8	8.9	n/a
HR-W72T9W-01	61005	8.7 (34)	8.2 (21)	16.9	8.4	n/a
HR-2DRRX6-01	61006	9.7 (34)	7.7 (21)	17.4	8.4	n/a
HR-HC0IAZ-01	61007	4.0 (34)	8.7 (21)	12.7	8.9	n/a
HR-WQB6DH-01	61008	12.8 (34)	11.2 (21)	24.0	7.6	n/a
HR-2PZE9M-01	61009	26.3 (34)	6.1 (21)	32.4	6.7	n/a
HR-4LYWW3-01	61010	29.1 (34)	6.6 (21)	35.7	6.3	n/a
HR-FJORUU-01	61101	32.5 (34)	4.3 (21)	36.8	6.1	n/a
HR-OYO9QL-01	61102	30.0 (34)	6.1 (21)	36.1	6.2	n/a
HR-55HBXU-01	61103	11.6 (34)	14.4 (21)	26.1	7.4	n/a
HR-QDZ80P-01	61104	2.7 (34)	5.3 (21)	8.0	9.7	n/a
HR-NG7WWF-01	61105	5.7 (34)	4.9 (21)	10.6	9.2	n/a
HR-Q0BET3-01	61106	6.2 (34)	5.5 (21)	11.6	9.1	n/a
HR-AO78QD-01	61107	2.3 (34)	6.0 (21)	8.3	9.6	n/a
HR-07A83P-01	61108	8.8 (34)	7.6 (21)	16.5	8.4	n/a
HR-U0KDP0-01	61109	26.4 (34)	4.2 (21)	30.6	6.9	n/a
HR-ZI4G59-01	61110	32.5 (34)	4.3 (21)	36.8	6.1	n/a
HR-D3U9GH-01	61201	32.7 (34)	4.2 (21)	36.9	6.1	n/a
HR-43OZUF-01	61202	30.1 (34)	6.1 (21)	36.1	6.2	n/a
HR-JKYEW2-01	61203	11.6 (34)	14.4 (21)	25.9	7.4	n/a
HR-LC2IT0-01	61204	2.8 (34)	5.1 (21)	7.9	9.7	n/a
HR-XWEGK6-01	61205	5.7 (34)	4.6 (21)	10.4	9.3	n/a
HR-4G9NPF-01	61206	6.1 (34)	5.2 (21)	11.3	9.1	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-BDNKCG-01	61207	2.4 (34)	5.9 (21)	8.3	9.6	n/a
HR-D117FX-01	61208	8.8 (34)	7.7 (21)	16.5	8.4	n/a
HR-A65R53-01	61209	26.4 (34)	4.0 (21)	30.4	6.9	n/a
HR-RO6SQT-01	61210	32.7 (34)	4.3 (21)	36.9	6.1	n/a
HR-0F4QO2-01	61301	32.8 (34)	4.3 (21)	37.1	6.1	n/a
HR-OGWE0M-01	61302	30.2 (34)	6.1 (21)	36.3	6.2	n/a
HR-3EXG3R-01	61303	11.7 (34)	14.3 (21)	26.0	7.4	n/a
HR-KTQIWY-01	61304	2.8 (34)	5.1 (21)	7.9	9.7	n/a
HR-P593AR-01	61305	5.8 (34)	4.6 (21)	10.4	9.3	n/a
HR-ZBPD4-01	61306	6.2 (34)	5.0 (21)	11.2	9.1	n/a
HR-ZRHXDO-01	61307	2.4 (34)	5.9 (21)	8.3	9.6	n/a
HR-IHI706-01	61308	8.8 (34)	8.3 (21)	17.0	8.4	n/a
HR-30JF2J-01	61309	26.4 (34)	4.2 (21)	30.6	6.9	n/a
HR-DTXBRG-01	61310	32.8 (34)	4.3 (21)	37.1	6.1	n/a
HR-EIB2JN-01	61401	33.1 (34)	4.2 (21)	37.4	6.1	n/a
HR-S2TWFF-01	61402	30.6 (34)	6.1 (21)	36.7	6.2	n/a
HR-4UIMDJ-01	61403	11.8 (34)	14.4 (21)	26.2	7.4	n/a
HR-LJLENM-01	61404	2.9 (34)	5.0 (21)	7.9	9.7	n/a
HR-Z9PDNY-01	61405	6.0 (34)	4.4 (21)	10.4	9.3	n/a
HR-KQZG01-01	61406	6.4 (34)	5.1 (21)	11.5	9.1	n/a
HR-H4HVTF-01	61407	2.5 (34)	5.9 (21)	8.4	9.6	n/a
HR-IQEBC2-01	61408	8.9 (34)	8.7 (21)	17.6	8.3	n/a
HR-DV57XW-01	61409	26.6 (34)	4.3 (21)	30.8	6.9	n/a
HR-4D7QGX-01	61410	33.1 (34)	4.3 (21)	37.4	6.1	n/a
HR-L6XZOC-01	614501	33.3 (34)	4.2 (21)	37.5	6.1	n/a
HR-PPW8HW-01	61502	30.7 (34)	6.1 (21)	36.8	6.2	n/a
HR-7BVU5S-01	61503	12.0 (34)	14.8 (21)	26.8	7.3	n/a
HR-I8GPQD-01	61504	3.0 (34)	5.0 (21)	8.0	9.7	n/a
HR-D39M6Q-01	61505	6.0 (34)	4.6 (21)	10.6	9.2	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-WWEHKK-01	61506	6.5 (34)	5.1 (21)	11.5	9.1	n/a
HR-G8K4WJ-01	61507	2.5 (34)	5.9 (21)	8.4	9.6	n/a
HR-A2ECS7-01	61508	8.9 (34)	9.5 (21)	18.4	8.3	n/a
HR-ZUQBIP-01	61509	26.5 (34)	4.5 (21)	31.0	6.9	n/a
HR-JV9TCD-01	61510	33.3 (34)	4.2 (21)	37.5	6.1	n/a
HR-Q64C44-01	61601	33.2 (34)	4.2 (21)	37.4	6.1	n/a
HR-RUPKII-01	61602	30.7 (34)	6.1 (21)	36.8	6.1	n/a
HR-D4GU1T-01	61603	12.0 (34)	14.7 (21)	26.7	7.3	n/a
HR-2DYYXV-01	61604	3.0 (34)	5.1 (21)	8.1	9.7	n/a
HR-H9MPLK-01	61605	5.9 (34)	4.5 (21)	10.5	9.3	n/a
HR-Y2P29J-01	61606	6.6 (34)	5.0 (21)	11.6	9.1	n/a
HR-9JXZAO-01	61607	2.6 (34)	5.9 (21)	8.4	9.6	n/a
HR-YB1E95-01	61608	8.8 (34)	11.2 (21)	20.0	8.1	n/a
HR-183U5I-01	61609	26.1 (34)	4.7 (21)	30.9	6.9	n/a
HR-NTWP18-01	61610	33.2 (34)	4.3 (21)	37.5	6.1	n/a
HR-026LN8-01	61701	30.4 (34)	5.7 (21)	36.0	6.2	n/a
HR-3CWSPL-01	61702	24.9 (34)	8.0 (21)	32.9	6.6	n/a
HR-FK1Y8U-01	61703	16.6 (34)	17.6 (21)	34.2	6.4	n/a
HR-I8Y9TL-01	61704	5.4 (34)	8.0 (21)	13.4	8.8	n/a
HR-9J5OT8-01	61705	10.2 (34)	7.4 (21)	17.6	8.3	n/a
HR-57GXA4-01	61706	10.7 (34)	7.7 (21)	18.4	8.3	n/a
HR-4B0BFU-01	61707	4.6 (34)	8.7 (21)	13.3	8.8	n/a
HR-VEKUXY-01	61708	13.1 (34)	16.4 (21)	29.5	7.1	n/a
HR-7DYYHK-01	61709	25.5 (34)	7.2 (21)	32.7	6.7	n/a
HR-JZJP0C-01	61710	30.4 (34)	6.9 (21)	37.3	6.1	n/a
HR-CJ8U92-01	61801	31.3 (33)	3.9 (20)	35.2	6.3	n/a
HR-R8F802-01	61802	28.3 (33)	6.2 (20)	34.5	6.4	n/a
HR-L01N0C-01	61803	12.5 (33)	13.6 (20)	26.1	7.4	n/a
HR-8QBX1A-01	61804	3.2 (33)	4.9 (20)	8.1	9.7	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-7E4HVP-01	61805	6.5 (33)	4.3 (20)	10.8	9.2	n/a
HR-UAHOU8-01	61806	6.9 (33)	4.6 (20)	11.5	9.1	n/a
HR-B8Q6AZ-01	61807	2.7 (33)	5.3 (20)	8.1	9.7	n/a
HR-B24YRH-01	61808	8.8 (33)	13.2 (20)	22.0	7.9	n/a
HR-G7OGBW-01	61809	27.9 (33)	5.8 (20)	33.7	6.5	n/a
HR-1VSGDM-01	61810	31.3 (33)	3.8 (20)	35.1	6.4	n/a
HR-H9CR1H-01	61901	31.3 (33)	3.9 (20)	35.1	6.4	n/a
HR-QAD8K6-01	61902	28.2 (33)	6.3 (20)	34.5	6.4	n/a
HR-JO5MY0-01	61903	12.4 (33)	13.6 (20)	25.9	7.4	n/a
HR-ARK30D-01	61904	3.1 (33)	4.7 (20)	7.8	9.7	n/a
HR-88SYVK-01	61905	6.4 (33)	4.4 (20)	10.7	9.2	n/a
HR-BOVLH8-01	61906	6.8 (33)	4.8 (20)	11.6	9.1	n/a
HR-5WZJ1S-01	61907	2.7 (33)	5.3 (20)	8.0	9.7	n/a
HR-XWO7IN-01	61908	8.4 (33)	14.1 (20)	22.5	7.8	n/a
HR-QTRU51-01	61909	24.9 (33)	6.3 (20)	31.2	6.9	n/a
HR-Q725EV-01	61910	31.3 (33)	3.9 (20)	35.1	6.4	n/a
HR-V7NOYC-01	62001	31.4 (33)	4.3 (20)	35.7	6.3	n/a
HR-L23O96-01	62002	28.2 (33)	6.7 (20)	34.9	6.4	n/a
HR-AWTEV1-01	62003	12.5 (33)	14.1 (20)	26.6	7.3	n/a
HR-1A3VPU-01	62004	3.1 (33)	5.1 (20)	8.3	9.6	n/a
HR-GLGIKU-01	62005	8.1 (33)	5.2 (20)	13.2	8.8	n/a
HR-9YUX89-01	62006	6.8 (33)	5.3 (20)	12.1	8.9	n/a
HR-5XEU96-01	62007	2.7 (33)	6.0 (20)	8.7	9.6	n/a
HR-0HYSYW-01	62008	8.2 (33)	15.5 (20)	23.7	7.7	n/a
HR-OPSXL6-01	62009	23.7 (33)	6.9 (20)	30.7	6.9	n/a
HR-OP58XR-01	6201	9.3 (34)	18.7 (21)	28.0	7.2	n/a
HR-JSJHCC-01	62010	31.2 (33)	4.4 (20)	35.6	6.3	n/a
HR-Q0OTIS-01	6202	0.5 (34)	5.6 (21)	6.1	9.9	n/a
HR-XZG0G4-01	6203	2.1 (34)	5.4 (21)	7.4	9.8	n/a

Summary of all dwellings

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HR-IBLV8U-01	6204	2.2 (34)	6.2 (21)	8.5	9.6	n/a
HR-UDXFQG-01	6205	0.5 (34)	7.2 (21)	7.6	9.7	n/a
HR-75L2JC-01	6206	13.9 (34)	8.9 (21)	22.8	7.8	n/a
HR-ABDFEV-01	62101	32.3 (33)	4.0 (20)	36.3	6.2	n/a
HR-E8EQLO-01	62102	29.1 (33)	7.8 (20)	36.9	6.1	n/a
HR-PLM3HR-01	62103	18.8 (33)	14.2 (20)	33.1	6.6	n/a
HR-38L0GL-01	62104	10.3 (33)	7.2 (20)	17.5	8.4	n/a
HR-EMRNK3-01	62105	17.6 (33)	7.2 (20)	24.8	7.5	n/a
HR-YYWQI8-01	62106	6.6 (33)	5.7 (20)	12.3	8.9	n/a
HR-VOTMID-01	62107	2.8 (33)	6.0 (20)	8.7	9.5	n/a
HR-ITIGFI-01	62108	8.4 (33)	15.7 (20)	24.1	7.6	n/a
HR-V2O8T9-01	62109	23.6 (33)	6.8 (20)	30.4	6.9	n/a
HR-WS85HJ-01	62110	30.4 (33)	4.9 (20)	35.3	6.3	n/a
HR-U4SHQH-01	62201	15.4 (33)	9.4 (20)	24.9	7.5	n/a
HR-SKQ4IZ-01	62202	9.0 (33)	8.1 (20)	17.1	8.4	n/a
HR-W2I2ZD-01	62203	17.0 (33)	17.5 (20)	34.4	6.4	n/a
HR-ARTWND-01	62204	27.4 (33)	8.0 (20)	35.4	6.3	n/a
HR-91BWGZ-01	62205	32.8 (33)	4.9 (20)	37.7	6.0	n/a
HR-DPFY7A-01	6301	14.6 (34)	16.5 (21)	31.1	6.9	n/a
HR-CKNDOJ-01	6302	1.1 (34)	5.4 (21)	6.4	9.9	n/a
HR-4G26OO-01	6303	3.4 (34)	5.2 (21)	8.6	9.6	n/a
HR-X48AJD-01	6304	3.7 (34)	5.6 (21)	9.3	9.4	n/a
HR-8A4ESQ-01	6305	1.0 (34)	6.8 (21)	7.8	9.7	n/a
HR-4EBKAA-01	6306	14.1 (34)	7.8 (21)	21.9	7.9	n/a
HR-HMFMJL-01	6401	33.9 (34)	3.6 (21)	37.4	6.1	n/a
HR-RCOC5D-01	6402	28.6 (34)	5.0 (21)	33.7	6.5	n/a
HR-EM8XFQ-01	6403	8.9 (34)	16.5 (21)	25.4	7.4	n/a
HR-SGD3N9-01	6404	1.2 (34)	5.3 (21)	6.6	9.9	n/a
HR-3DIJDI-01	6405	3.7 (34)	5.1 (21)	8.8	9.5	n/a

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HR-39ZOH1-01	6406	3.9 (34)	5.7 (21)	9.6	9.4	n/a
HR-UHTAKD-01	6407	1.1 (34)	5.9 (21)	7.0	9.8	n/a
HR-1B4CA8-01	6408	5.8 (34)	8.6 (21)	14.4	8.7	n/a
HR-TLIACB-01	6409	29.5 (34)	4.1 (21)	33.6	6.6	n/a
HR-Y88UPQ-01	6410	32.5 (34)	2.9 (21)	35.5	6.3	n/a
HR-WHR8ZG-01	6501	28.2 (34)	4.6 (21)	32.8	6.6	n/a
HR-CCHEYR-01	6502	31.6 (34)	6.0 (21)	37.6	6.0	n/a
HR-GBJOJX-01	6503	9.1 (34)	16.6 (21)	25.7	7.4	n/a
HR-18ZTPZ-01	6504	1.4 (34)	5.4 (21)	6.8	9.9	n/a
HR-8NBRRN-01	6505	3.8 (34)	5.0 (21)	8.8	9.5	n/a
HR-24MR1U-01	6506	4.1 (34)	5.8 (21)	9.9	9.3	n/a
HR-HERCTV-01	6507	1.2 (34)	6.3 (21)	7.4	9.8	n/a
HR-9UBL6N-01	6508	6.4 (34)	8.9 (21)	15.3	8.6	n/a
HR-710XW2-01	6509	28.4 (34)	4.8 (21)	33.1	6.6	n/a
HR-GG8QHS-01	6510	28.0 (34)	4.4 (21)	32.4	6.7	n/a
HR-HYOT01-01	6601	28.8 (34)	4.7 (21)	33.5	6.6	n/a
HR-DS9ZLP-01	6602	25.7 (34)	6.2 (21)	32.0	6.8	n/a
HR-7QRUTE-01	6603	8.9 (34)	17.6 (21)	26.5	7.3	n/a
HR-V8OW20-01	6604	1.5 (34)	5.3 (21)	6.9	9.9	n/a
HR-0C5USA-01	6605	4.0 (34)	5.1 (21)	9.1	9.4	n/a
HR-AGNG6T-01	6606	4.4 (34)	5.7 (21)	10.1	9.3	n/a
HR-VAX09E-01	6607	1.2 (34)	6.2 (21)	7.4	9.8	n/a
HR-C5EDDI-01	6608	6.6 (34)	8.6 (21)	15.2	8.6	n/a
HR-MJ1X7X-01	6609	29.0 (34)	4.8 (21)	33.8	6.5	n/a
HR-B792JX-01	6610	28.8 (34)	4.5 (21)	33.3	6.6	n/a
HR-5XU7SZ-01	6701	29.2 (34)	4.6 (21)	33.8	6.5	n/a
HR-2PSZC2-01	6702	26.1 (34)	6.1 (21)	32.2	6.7	n/a
HR-0S98NE-01	6703	9.3 (34)	17.2 (21)	26.4	7.4	n/a
HR-JYIXDI-01	6704	1.6 (34)	5.2 (21)	6.8	9.9	n/a

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HR-KJLG1I-01	6705	4.2 (34)	5.1 (21)	9.2	9.4	n/a
HR-03CW7Z-01	6706	4.5 (34)	5.6 (21)	10.1	9.3	n/a
HR-5E71E5-01	6707	1.3 (34)	6.1 (21)	7.4	9.8	n/a
HR-G0UHW-01	6708	6.7 (34)	8.5 (21)	15.3	8.6	n/a
HR-4NCF61-01	6709	29.4 (34)	4.8 (21)	34.2	6.4	n/a
HR-9OH0RW-01	6710	29.1 (34)	4.6 (21)	33.7	6.5	n/a
HR-0JI3R5-01	6801	29.7 (34)	4.6 (21)	34.3	6.4	n/a
HR-TOKCPA-01	6802	27.0 (34)	6.2 (21)	33.2	6.6	n/a
HR-WHET0R-01	6803	9.4 (34)	16.7 (21)	26.1	7.4	n/a
HR-XQOBKO-01	6804	1.8 (34)	5.2 (21)	7.0	9.8	n/a
HR-HZIXT9-01	6805	4.3 (34)	5.1 (21)	9.4	9.4	n/a
HR-QQVO90-01	6806	4.7 (34)	5.5 (21)	10.2	9.3	n/a
HR-8HD3PZ-01	6807	1.4 (34)	6.2 (21)	7.6	9.7	n/a
HR-PVL4GW-01	6808	7.0 (34)	8.4 (21)	15.4	8.6	n/a
HR-7IP8R5-01	6809	29.9 (34)	4.7 (21)	34.7	6.4	n/a
HR-G7PZRK-01	6810	29.7 (34)	4.5 (21)	34.2	6.4	n/a
HR-DNIWN5-01	6901	29.8 (34)	4.6 (21)	34.4	6.4	n/a
HR-CCDHVT-01	6902	26.9 (34)	6.3 (21)	33.2	6.6	n/a
HR-S5DWXJ-01	6903	9.6 (34)	16.8 (21)	26.4	7.4	n/a
HR-THJVJS-01	6904	1.9 (34)	5.2 (21)	7.1	9.8	n/a
HR-TLKJ8Z-01	6905	4.4 (34)	5.1 (21)	9.5	9.4	n/a
HR-XQ8SWT-01	6906	4.9 (34)	5.5 (21)	10.4	9.3	n/a
HR-BBQDDV-01	6907	1.5 (34)	6.2 (21)	7.7	9.7	n/a
HR-U79R09-01	6908	7.2 (34)	8.6 (21)	15.8	8.5	n/a
HR-6QVV7D-01	6909	30.1 (34)	4.8 (21)	34.9	6.4	n/a
HR-XJLBAG-01	6910	29.7 (34)	4.5 (21)	34.2	6.4	n/a
HR-2MNZD3-01	7001	14.3 (34)	17.1 (21)	31.5	6.8	n/a
HR-0T1KMY-01	7002	11.2 (34)	11.0 (21)	22.2	7.8	n/a
HR-TVMZ2U-01	7003	14.1 (34)	21.0 (21)	35.1	6.4	n/a

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HR-SXCUGZ-01	7004	11.3 (34)	20.5 (21)	31.7	6.8	n/a
HR-LLXC91-01	7005	2.4 (34)	9.4 (21)	11.8	9.0	n/a
HR-WOCK44-01	71001	17.0 (34)	16.9 (21)	33.8	6.5	n/a
HR-6D0RPN-01	71002	18.5 (34)	6.3 (21)	24.8	7.5	n/a
HR-AWMGSZ-01	71003	19.6 (34)	9.6 (21)	29.2	7.1	n/a
HR-L3N2QL-01	71004	12.9 (34)	8.2 (21)	21.0	7.9	n/a
HR-ON3OO7-01	71005	23.7 (34)	13.2 (21)	36.9	6.1	n/a
HR-DKTBIZ-01	71006	23.4 (34)	12.7 (21)	36.1	6.2	n/a
HR-G9EZR2-01	71007	5.1 (34)	8.4 (21)	13.5	8.8	n/a
HR-GO8D8R-01	71008	7.8 (34)	6.0 (21)	13.8	8.8	n/a
HR-ZLBCNV-01	71009	16.1 (34)	14.3 (21)	30.4	6.9	n/a
HR-M587VY-01	7101	17.8 (34)	11.8 (21)	29.6	7.0	n/a
HR-UVZW8U-01	7102	16.7 (34)	8.9 (21)	25.6	7.4	n/a
HR-VAJ39A-01	7103	11.6 (34)	20.6 (21)	32.2	6.7	n/a
HR-O55UAQ-01	7104	8.5 (34)	9.3 (21)	17.7	8.3	n/a
HR-T8LU77-01	7105	2.0 (34)	10.8 (21)	12.8	8.9	n/a
HR-W6YJ1Q-01	71101	16.3 (34)	18.6 (21)	34.9	6.4	n/a
HR-RCERGV-01	71102	18.0 (34)	8.8 (21)	26.7	7.3	n/a
HR-QE2AUP-01	71103	21.4 (34)	11.2 (21)	32.5	6.7	n/a
HR-VNH6DT-01	71104	12.6 (34)	9.8 (21)	22.4	7.8	n/a
HR-ORLW2Q-01	71105	18.5 (34)	12.3 (21)	30.8	6.9	n/a
HR-8QWD8F-01	71106	18.5 (34)	12.0 (21)	30.4	6.9	n/a
HR-P2231P-01	71107	8.2 (34)	9.3 (21)	17.5	8.3	n/a
HR-ZAMC2N-01	71108	10.2 (34)	8.2 (21)	18.4	8.3	n/a
HR-MN3FU3-01	71109	17.7 (34)	14.8 (21)	32.5	6.7	n/a
HR-ZXDBGR-01	71201	19.0 (34)	16.7 (21)	35.7	6.3	n/a
HR-6623KJ-01	71202	21.5 (34)	6.5 (21)	28.0	7.2	n/a
HR-EISNYI-01	71203	23.6 (34)	12.1 (21)	35.7	6.3	n/a
HR-9RXV1V-01	71204	15.7 (34)	7.8 (21)	23.5	7.7	n/a

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HR-DCLP42-01	71205	19.7 (34)	11.3 (21)	31.0	6.9	n/a
HR-KP48O3-01	71206	19.2 (34)	10.6 (21)	29.8	7.0	n/a
HR-7M5D5N-01	71207	6.3 (34)	8.6 (21)	14.8	8.6	n/a
HR-SMK9KF-01	71208	9.5 (34)	6.1 (21)	15.7	8.5	n/a
HR-E34Y62-01	71209	20.2 (34)	13.7 (21)	33.9	6.5	n/a
HR-1PVB39-01	71301	18.9 (34)	16.3 (21)	35.2	6.3	n/a
HR-HXY3F4-01	71302	21.2 (34)	6.1 (21)	27.3	7.3	n/a
HR-4PX61M-01	71303	24.3 (34)	12.1 (21)	36.3	6.2	n/a
HR-WMUXD4-01	71304	16.0 (34)	7.7 (21)	23.8	7.7	n/a
HR-3PLFO6-01	71305	20.6 (34)	10.2 (21)	30.8	6.9	n/a
HR-HUXXB9-01	71306	20.1 (34)	10.1 (21)	30.2	6.9	n/a
HR-JFT12F-01	71307	7.3 (34)	8.6 (21)	15.9	8.5	n/a
HR-V2V2PW-01	71308	9.5 (34)	6.2 (21)	15.7	8.5	n/a
HR-PCW8PF-01	71309	20.0 (34)	13.5 (21)	33.5	6.6	n/a
HR-74OB81-01	71401	16.5 (34)	16.8 (21)	33.3	6.6	n/a
HR-H5J6FA-01	71402	20.0 (34)	6.2 (21)	26.2	7.4	n/a
HR-IGMLP3-01	71403	23.6 (34)	10.1 (21)	33.7	6.5	n/a
HR-67F6S5-01	71404	15.5 (34)	8.8 (21)	24.4	7.6	n/a
HR-UILQ7O-01	71405	20.2 (34)	10.9 (21)	31.1	6.9	n/a
HR-LUUXWZ-01	71406	19.6 (34)	10.8 (21)	30.5	6.9	n/a
HR-RACKYI-01	71407	7.4 (34)	8.0 (21)	15.4	8.6	n/a
HR-81DTPN-01	71408	9.5 (34)	6.1 (21)	15.5	8.6	n/a
HR-LBU0NH-01	71409	19.3 (34)	13.8 (21)	33.0	6.6	n/a
HR-9BHH5W-01	71501	13.6 (34)	16.1 (21)	29.7	7.0	n/a
HR-056FVF-01	71502	20.4 (34)	6.1 (21)	26.5	7.4	n/a
HR-H0UNOM-01	71503	25.5 (34)	9.2 (21)	34.7	6.4	n/a
HR-TISTVQ-01	71504	16.5 (34)	8.6 (21)	25.1	7.4	n/a
HR-AT21VS-01	71505	21.0 (34)	10.2 (21)	31.2	6.8	n/a
HR-2C6HA0-01	71506	20.5 (34)	10.0 (21)	30.5	6.9	n/a

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HR-C9ZU0S-01	71507	8.0 (34)	7.7 (21)	15.7	8.5	n/a
HR-AFO2OY-01	71508	9.7 (34)	6.2 (21)	15.9	8.5	n/a
HR-8H0J7B-01	71509	19.6 (34)	13.9 (21)	33.5	6.6	n/a
HR-QTWO76-01	71601	11.2 (34)	16.3 (21)	27.5	7.2	n/a
HR-VDXM8D-01	71602	19.9 (34)	6.2 (21)	26.1	7.4	n/a
HR-XKM1HC-01	71603	18.8 (34)	13.4 (21)	32.2	6.7	n/a
HR-PZKEP3-01	71604	16.2 (34)	7.5 (21)	23.8	7.7	n/a
HR-YQFH28-01	71605	20.6 (34)	10.7 (21)	31.3	6.8	n/a
HR-WY6J40-01	71606	20.0 (34)	10.4 (21)	30.4	6.9	n/a
HR-FZQ3SX-01	71607	6.3 (34)	8.7 (21)	15.0	8.6	n/a
HR-LSQ42V-01	71608	9.6 (34)	6.2 (21)	15.8	8.5	n/a
HR-95OTXU-01	71609	18.0 (34)	13.9 (21)	31.9	6.8	n/a
HR-6S6O74-01	71701	10.3 (34)	15.9 (21)	26.3	7.4	n/a
HR-3BL5YD-01	71702	20.6 (34)	5.9 (21)	26.6	7.3	n/a
HR-NXFZVL-01	71703	25.1 (34)	11.8 (21)	36.9	6.1	n/a
HR-IRQN12-01	71704	16.8 (34)	8.0 (21)	24.7	7.5	n/a
HR-7QWGUL-01	71705	21.3 (34)	10.0 (21)	31.3	6.8	n/a
HR-B96YF5-01	71706	20.9 (34)	9.9 (21)	30.8	6.9	n/a
HR-QIZWR8-01	71707	7.7 (34)	8.0 (21)	15.7	8.5	n/a
HR-1KP1HO-01	71708	9.5 (34)	6.0 (21)	15.6	8.6	n/a
HR-GM88XB-01	71709	20.8 (34)	17.1 (21)	37.9	6.0	n/a
HR-2FNWJX-01	71801	9.8 (34)	16.7 (21)	26.4	7.4	n/a
HR-RJOFN8-01	71802	20.2 (34)	6.1 (21)	26.3	7.4	n/a
HR-MC9M1E-01	71803	24.4 (34)	9.6 (21)	34.0	6.4	n/a
HR-57ZMSL-01	71804	16.3 (34)	8.5 (21)	24.8	7.5	n/a
HR-1ZNGIP-01	71805	20.9 (34)	10.7 (21)	31.6	6.8	n/a
HR-K31RWC-01	71806	20.4 (34)	10.5 (21)	30.9	6.9	n/a
HR-5U66BF-01	71807	8.0 (34)	7.7 (21)	15.6	8.5	n/a
HR-D9QPHS-01	71808	9.5 (34)	6.2 (21)	15.7	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-4MX6OQ-01	71809	14.0 (34)	16.9 (21)	30.9	6.9	n/a
HR-ZW37DU-01	71901	9.2 (34)	16.1 (21)	25.3	7.4	n/a
HR-22I3FU-01	71902	20.9 (34)	5.9 (21)	26.8	7.3	n/a
HR-4L8FQB-01	71903	26.1 (34)	9.3 (21)	35.4	6.3	n/a
HR-Z2RDJV-01	71904	17.1 (34)	8.2 (21)	25.3	7.4	n/a
HR-EUEBMT-01	71905	21.6 (34)	9.9 (21)	31.6	6.8	n/a
HR-TFW75Z-01	71906	21.1 (34)	10.0 (21)	31.0	6.9	n/a
HR-EXWGTX-01	71907	8.4 (34)	7.6 (21)	15.9	8.5	n/a
HR-2XT0CH-01	71908	9.1 (34)	6.1 (21)	15.2	8.6	n/a
HR-GN9XC8-01	71909	11.3 (34)	16.6 (21)	27.9	7.2	n/a
HR-UI0F3T-01	72001	8.8 (34)	16.6 (21)	25.5	7.4	n/a
HR-IKVGFN-01	72002	20.4 (34)	6.1 (21)	26.5	7.4	n/a
HR-CW6FK0-01	72003	19.3 (34)	13.1 (21)	32.5	6.7	n/a
HR-AGEQ3G-01	72004	16.8 (34)	7.9 (21)	24.7	7.5	n/a
HR-ECJYP9-01	72005	21.2 (34)	10.7 (21)	31.9	6.8	n/a
HR-S3GAKZ-01	72006	20.6 (34)	10.6 (21)	31.2	6.8	n/a
HR-CA24GA-01	72007	6.7 (34)	8.6 (21)	15.3	8.6	n/a
HR-8V72WA-01	72008	8.8 (34)	5.9 (21)	14.8	8.7	n/a
HR-FKWLLL-01	72009	8.9 (34)	17.7 (21)	26.6	7.3	n/a
HR-O1EHHW-01	7201	10.0 (34)	18.7 (21)	28.6	7.1	n/a
HR-EXRTIR-01	7202	8.6 (34)	10.1 (21)	18.6	8.2	n/a
HR-KUEDUT-01	7203	10.9 (34)	13.3 (21)	24.2	7.6	n/a
HR-NG9EPP-01	7204	6.4 (34)	13.2 (21)	19.6	8.1	n/a
HR-7CFGVC-01	7205	9.7 (34)	17.9 (21)	27.6	7.2	n/a
HR-8I0IZ7-01	7206	12.7 (34)	13.7 (21)	26.4	7.4	n/a
HR-OSD399-01	7207	1.9 (34)	10.8 (21)	12.7	8.9	n/a
HR-YGJVES-01	72101	9.1 (34)	16.2 (21)	25.3	7.4	n/a
HR-048EF5-01	72102	21.0 (34)	6.0 (21)	27.0	7.3	n/a
HR-WO46N1-01	72103	25.8 (34)	11.6 (21)	37.4	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-HAW1QX-01	72104	17.0 (34)	7.9 (21)	24.9	7.5	n/a
HR-L6DDBE-01	72105	21.7 (34)	9.9 (21)	31.6	6.8	n/a
HR-AEOI30-01	72106	21.3 (34)	10.0 (21)	31.3	6.8	n/a
HR-6MHXND-01	72107	7.8 (34)	8.0 (21)	15.9	8.5	n/a
HR-BKL5PC-01	72108	7.6 (34)	6.3 (21)	13.9	8.8	n/a
HR-69II9Y-01	72109	8.8 (34)	17.4 (21)	26.2	7.4	n/a
HR-0E9L6S-01	72201	14.5 (34)	17.8 (21)	32.3	6.7	n/a
HR-YOSRNB-01	72202	26.8 (34)	8.9 (21)	35.7	6.3	n/a
HR-YUP31K-01	72203	26.3 (34)	10.0 (21)	36.3	6.2	n/a
HR-ZG9DWW-01	72204	21.2 (34)	9.2 (21)	30.5	6.9	n/a
HR-15IULS-01	72205	24.8 (34)	12.5 (21)	37.3	6.1	n/a
HR-GUVY9U-01	72206	25.1 (34)	12.0 (21)	37.1	6.1	n/a
HR-5EIZS7-01	72207	17.0 (34)	9.0 (21)	26.0	7.4	n/a
HR-6YQI89-01	72208	14.0 (34)	8.3 (21)	22.3	7.8	n/a
HR-U8PE1X-01	72209	15.4 (34)	18.5 (21)	33.9	6.5	n/a
HR-W3FFBA-01	7301	5.4 (34)	19.2 (21)	24.6	7.6	n/a
HR-REZOGY-01	7302	9.3 (34)	9.5 (21)	18.8	8.2	n/a
HR-XI4CQZ-01	7303	12.2 (34)	12.2 (21)	24.4	7.6	n/a
HR-M20POF-01	7304	7.1 (34)	12.3 (21)	19.4	8.2	n/a
HR-9MMVFM-01	7305	14.4 (34)	20.0 (21)	34.4	6.4	n/a
HR-5V8K78-01	7306	14.2 (34)	13.8 (21)	28.0	7.2	n/a
HR-A54U12-01	7307	2.4 (34)	10.0 (21)	12.3	8.9	n/a
HR-QKMAYV-01	7401	13.8 (34)	19.1 (21)	32.9	6.6	n/a
HR-IQQNNG-01	7402	14.7 (34)	7.4 (21)	22.1	7.9	n/a
HR-W8CWVG-01	7403	14.7 (34)	15.0 (21)	29.7	7.0	n/a
HR-MAINA8-01	7404	9.4 (34)	6.9 (21)	16.3	8.4	n/a
HR-ZVO356-01	7405	18.2 (34)	13.9 (21)	32.1	6.7	n/a
HR-HN9799-01	7406	19.2 (34)	12.2 (21)	31.4	6.8	n/a
HR-WIMIEP-01	7407	3.3 (34)	8.5 (21)	11.8	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-TRTKGB-01	7408	13.0 (34)	5.5 (21)	18.5	8.3	n/a
HR-3TSQPS-01	7409	29.6 (34)	7.4 (21)	37.1	6.1	n/a
HR-SQ9YH5-01	7501	14.5 (34)	18.3 (21)	32.8	6.6	n/a
HR-G7E1GH-01	7502	15.9 (34)	6.7 (21)	22.6	7.8	n/a
HR-QDGXW5-01	7503	16.1 (34)	14.3 (21)	30.3	6.9	n/a
HR-41AIQM-01	7504	10.4 (34)	7.4 (21)	17.8	8.3	n/a
HR-WEL62B-01	7505	19.7 (34)	13.6 (21)	33.3	6.6	n/a
HR-ZW261I-01	7506	19.8 (34)	12.5 (21)	32.2	6.7	n/a
HR-N74Y8G-01	7507	4.2 (34)	8.5 (21)	12.6	8.9	n/a
HR-GLXF5R-01	7508	5.9 (34)	6.7 (21)	12.6	8.9	n/a
HR-J9JZ3J-01	7509	20.1 (34)	13.8 (21)	33.9	6.5	n/a
HR-WWPED7-01	7601	14.6 (34)	18.3 (21)	32.9	6.6	n/a
HR-FFGD5O-01	7602	15.8 (34)	7.3 (21)	23.0	7.7	n/a
HR-PP7CZZ-01	7603	16.3 (34)	10.1 (21)	26.4	7.4	n/a
HR-4P618U-01	7604	10.4 (34)	8.2 (21)	18.5	8.2	n/a
HR-GWWXWC-01	7605	17.1 (34)	13.5 (21)	30.6	6.9	n/a
HR-5QBRQB-01	7606	18.8 (34)	13.0 (21)	31.8	6.8	n/a
HR-J8Y5VN-01	7607	3.8 (34)	8.8 (21)	12.6	8.9	n/a
HR-VJLCTC-01	7608	6.1 (34)	6.5 (21)	12.6	8.9	n/a
HR-1JXT1Y-01	7609	19.1 (34)	17.5 (21)	36.6	6.2	n/a
HR-9SJ13E-01	7701	15.7 (34)	17.7 (21)	33.4	6.6	n/a
HR-0LGXPI-01	7702	16.8 (34)	6.7 (21)	23.5	7.7	n/a
HR-4I1046-01	7703	17.5 (34)	10.2 (21)	27.6	7.2	n/a
HR-KGCSRH-01	7704	11.5 (34)	9.0 (21)	20.5	8.0	n/a
HR-O4HQ8L-01	7705	20.9 (34)	13.3 (21)	34.2	6.4	n/a
HR-KY1DZX-01	7706	20.6 (34)	11.9 (21)	32.5	6.7	n/a
HR-YWMKPR-01	7707	4.8 (34)	8.4 (21)	13.2	8.8	n/a
HR-Z8QDDE-01	7708	6.3 (34)	6.7 (21)	13.1	8.9	n/a
HR-SVASLZ-01	7709	20.0 (34)	16.8 (21)	36.8	6.2	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-B4XT3A-01	7801	15.3 (34)	18.2 (21)	33.5	6.6	n/a
HR-5RE3HX-01	7802	16.4 (34)	7.2 (21)	23.6	7.7	n/a
HR-LZGQ66-01	7803	16.6 (34)	13.7 (21)	30.3	6.9	n/a
HR-6MLUEI-01	7804	10.9 (34)	7.4 (21)	18.4	8.3	n/a
HR-BWDTD7-01	7805	20.6 (34)	12.8 (21)	33.4	6.6	n/a
HR-4MXIQQ-01	7806	20.3 (34)	12.3 (21)	32.6	6.7	n/a
HR-7L9YH9-01	7807	4.5 (34)	8.4 (21)	12.9	8.9	n/a
HR-VI0NPW-01	7808	6.5 (34)	6.6 (21)	13.1	8.9	n/a
HR-Q0HCOU-01	7809	19.8 (34)	17.3 (21)	37.1	6.1	n/a
HR-Z9D8J9-01	7901	15.8 (34)	17.4 (21)	33.2	6.6	n/a
HR-1Y5CB9-01	7902	17.4 (34)	6.7 (21)	24.2	7.6	n/a
HR-9HFTF7-01	7903	17.9 (34)	13.5 (21)	31.3	6.8	n/a
HR-OKX99X-01	7904	11.9 (34)	7.4 (21)	19.3	8.2	n/a
HR-VEF21M-01	7905	21.9 (34)	13.4 (21)	35.3	6.3	n/a
HR-2MMKBY-01	7906	21.6 (34)	11.8 (21)	33.4	6.6	n/a
HR-T2ATZM-01	7907	4.9 (34)	8.8 (21)	13.7	8.8	n/a
HR-ODP6EY-01	7908	6.7 (34)	6.7 (21)	13.4	8.8	n/a
HR-GOJW1X-01	7909	20.7 (34)	16.9 (21)	37.6	6.1	n/a
Averages	398x (Total)	15.0	9.2	24.2	7.6	n/a
Maximum Loads and Minimum Ratings		33.9	21.0	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.planningportal.nsw.gov.au/development-and-assessment/basix

Multi Dwelling

Certificate number: 1771808M_06

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

This certificate is a revision of certificate number 1771808M_03 submitted to the consent authority or certifier on 30 January 2025 with application SSD-70283710.

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

Secretary

Date of issue: Friday, 17 July 2026

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.



When submitting this BASIX certificate with a development application or complying development certificate application, it must be accompanied by NatHERS certificate HR-CL19IR-01.

Project summary

Project name	1 Crescent Street Holroyd - Phase 1 (T1,T2)_06
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	572
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

Project score

Water	✓ 41	Target 40
Thermal Performance (Simulation method)	✓ 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)_06
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	572
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	37904
Roof area (m²)	2175
Non-residential floor area (m²)	8315
Residential car spaces	784
Non-residential car spaces	76

Common area landscape		
Common area lawn (m²)	655	
Common area garden (m²)	2600	
Area of indigenous or low water use species (m²)	1800	
Assessor details and thermal loads		
Assessor number	HERA10033	
Certificate number	HR-CL19IR-01	
Climate zone	56	
Project score		
Water	✓ 41	Target 40
Thermal Performance (Simulation method)	✓ 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, 288 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	78.9	0	0	0
11005	2	73.4	0	0	0
11009	2	80.5	0	0	0
11102	2	83.9	0	0	0
11106	1	50.2	0	0	0
11110	1	53.2	0	0	0
11203	2	83.9	0	0	0
11207	1	49.4	0	0	0
11211	3	103.3	0	0	0
11304	2	78.9	0	0	0
11308	2	79.5	0	0	0
11401	2	78.9	0	0	0
11405	2	73.4	0	0	0
11409	2	80.5	0	0	0
11502	2	83.9	0	0	0
11506	1	50.2	0	0	0
11510	1	53.2	0	0	0
11603	2	83.9	0	0	0
11607	1	49.4	0	0	0
11611	3	103.3	0	0	0
11704	2	78.9	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)
11002	2	83.9	0	0	0
11006	1	50.2	0	0	0
11010	1	53.2	0	0	0
11103	2	83.9	0	0	0
11107	1	49.4	0	0	0
11111	3	103.3	0	0	0
11204	2	78.9	0	0	0
11208	2	79.5	0	0	0
11301	2	78.9	0	0	0
11305	2	73.4	0	0	0
11309	2	80.5	0	0	0
11402	2	83.9	0	0	0
11406	1	50.2	0	0	0
11410	1	53.2	0	0	0
11503	2	83.9	0	0	0
11507	1	49.4	0	0	0
11511	3	103.3	0	0	0
11604	2	78.9	0	0	0
11608	2	79.5	0	0	0
11701	2	78.9	0	0	0
11705	2	73.4	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)
11003	2	83.9	0	0	0
11007	1	49.4	0	0	0
11011	3	103.3	0	0	0
11104	2	78.9	0	0	0
11108	2	79.5	0	0	0
11201	2	78.9	0	0	0
11205	2	73.4	0	0	0
11209	2	80.5	0	0	0
11302	2	83.9	0	0	0
11306	1	50.2	0	0	0
11310	1	53.2	0	0	0
11403	2	83.9	0	0	0
11407	1	49.4	0	0	0
11411	3	103.3	0	0	0
11504	2	78.9	0	0	0
11508	2	79.5	0	0	0
11601	2	78.9	0	0	0
11605	2	73.4	0	0	0
11609	2	80.5	0	0	0
11702	2	83.9	0	0	0
11706	1	50.2	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)
11004	2	78.9	0	0	0
11008	2	79.5	0	0	0
11101	2	78.9	0	0	0
11105	2	73.4	0	0	0
11109	2	80.5	0	0	0
11202	2	83.9	0	0	0
11206	1	50.2	0	0	0
11210	1	53.2	0	0	0
11303	2	83.9	0	0	0
11307	1	49.4	0	0	0
11311	3	103.3	0	0	0
11404	2	78.9	0	0	0
11408	2	79.5	0	0	0
11501	2	78.9	0	0	0
11505	2	73.4	0	0	0
11509	2	80.5	0	0	0
11602	2	83.9	0	0	0
11606	1	50.2	0	0	0
11610	1	53.2	0	0	0
11703	2	83.9	0	0	0
11707	1	49.4	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)
11708	2	79.5	0	0	0
11801	2	78.9	0	0	0
11805	2	73.4	0	0	0
11809	2	80.5	0	0	0
11902	3	105.1	0	0	0
11906	2	75.2	0	0	0
11910	2	77.9	0	0	0
12004	2	77.9	0	0	0
12008	2	80.5	0	0	0
12102	3	105.1	0	0	0
12106	2	75.2	0	0	0
12110	2	77.9	0	0	0
12204	2	77.9	0	0	0
12208	2	80.5	0	0	0
12302	3	105.1	0	0	0
12306	2	75.2	0	0	0
12310	2	77.9	0	0	0
12404	2	77.9	0	0	0
12408	2	80.5	0	0	0
12502	3	105.1	0	0	0
12506	2	75.2	0	0	0
12510	2	77.9	0	0	0
12604	2	77.9	0	0	0
12608	2	80.5	0	0	0
12702	3	105.1	0	0	0
12706	2	75.2	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)
11709	2	80.5	0	0	0
11802	2	83.9	0	0	0
11806	1	50.2	0	0	0
11810	1	53.2	0	0	0
11903	3	105.1	0	0	0
11907	2	79.5	0	0	0
12001	2	77.9	0	0	0
12005	2	77.9	0	0	0
12009	1	53.2	0	0	0
12103	3	105.1	0	0	0
12107	2	79.5	0	0	0
12201	2	77.9	0	0	0
12205	2	77.9	0	0	0
12209	1	53.2	0	0	0
12303	3	105.1	0	0	0
12307	2	79.5	0	0	0
12401	2	77.9	0	0	0
12405	2	77.9	0	0	0
12409	1	53.2	0	0	0
12503	3	105.1	0	0	0
12507	2	79.5	0	0	0
12601	2	77.9	0	0	0
12605	2	77.9	0	0	0
12609	1	53.2	0	0	0
12703	3	105.1	0	0	0
12707	2	79.5	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)
11710	1	53.2	0	0	0
11803	2	83.9	0	0	0
11807	1	49.4	0	0	0
11811	3	103.3	0	0	0
11904	2	77.9	0	0	0
11908	2	80.5	0	0	0
12002	3	105.1	0	0	0
12006	2	75.2	0	0	0
12010	2	77.9	0	0	0
12104	2	77.9	0	0	0
12108	2	80.5	0	0	0
12202	3	105.1	0	0	0
12206	2	75.2	0	0	0
12210	2	77.9	0	0	0
12304	2	77.9	0	0	0
12308	2	80.5	0	0	0
12402	3	105.1	0	0	0
12406	2	75.2	0	0	0
12410	2	77.9	0	0	0
12504	2	77.9	0	0	0
12508	2	80.5	0	0	0
12602	3	105.1	0	0	0
12606	2	75.2	0	0	0
12610	2	77.9	0	0	0
12704	2	77.9	0	0	0
12708	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)
11711	3	103.3	0	0	0
11804	2	78.9	0	0	0
11808	2	79.5	0	0	0
11901	2	77.9	0	0	0
11905	2	77.9	0	0	0
11909	1	53.2	0	0	0
12003	3	105.1	0	0	0
12007	2	79.5	0	0	0
12101	2	77.9	0	0	0
12105	2	77.9	0	0	0
12109	1	53.2	0	0	0
12203	3	105.1	0	0	0
12207	2	79.5	0	0	0
12301	2	77.9	0	0	0
12305	2	77.9	0	0	0
12309	1	53.2	0	0	0
12403	3	105.1	0	0	0
12407	2	79.5	0	0	0
12501	2	77.9	0	0	0
12505	2	77.9	0	0	0
12509	1	53.2	0	0	0
12603	3	105.1	0	0	0
12607	2	79.5	0	0	0
12701	2	77.9	0	0	0
12705	2	77.9	0	0	0
12709	1	53.2	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)
12710	2	77.9	0	0	0
12804	2	77.9	0	0	0
12808	2	80.5	0	0	0
12902	3	105.1	0	0	0
12906	2	75.2	0	0	0
12910	2	77.9	0	0	0
13004	2	77.9	0	0	0
13008	2	80.5	0	0	0
13102	3	105.1	0	0	0
13106	2	75.2	0	0	0
13110	2	77.9	0	0	0
13204	2	77.9	0	0	0
13208	2	80.5	0	0	0
13302	3	105.1	0	0	0
13306	2	75.2	0	0	0
13310	2	77.9	0	0	0
13404	2	77.9	0	0	0
13408	2	80.5	0	0	0
13502	4+	136	0	0	0
13602	4+	136	0	0	0
1802	2	83.9	0	0	0
1806	1	50.2	0	0	0
1810	3	103.3	0	0	0
1904	2	78.9	0	0	0
1908	2	79.5	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)
12801	2	77.9	0	0	0
12805	2	77.9	0	0	0
12809	1	53.2	0	0	0
12903	3	105.1	0	0	0
12907	2	79.5	0	0	0
13001	2	77.9	0	0	0
13005	2	77.9	0	0	0
13009	1	53.2	0	0	0
13103	3	105.1	0	0	0
13107	2	79.5	0	0	0
13201	2	77.9	0	0	0
13205	2	77.9	0	0	0
13209	1	53.2	0	0	0
13303	3	105.1	0	0	0
13307	2	79.5	0	0	0
13401	2	77.9	0	0	0
13405	2	77.9	0	0	0
13409	1	53.2	0	0	0
13503	3	122.5	0	0	0
13603	3	122.5	0	0	0
1803	2	83.9	0	0	0
1807	1	49.4	0	0	0
1901	2	78.9	0	0	0
1905	2	73.4	0	0	0
1909	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)
12802	3	105.1	0	0	0
12806	2	75.2	0	0	0
12810	2	77.9	0	0	0
12904	2	77.9	0	0	0
12908	2	80.5	0	0	0
13002	3	105.1	0	0	0
13006	2	75.2	0	0	0
13010	2	77.9	0	0	0
13104	2	77.9	0	0	0
13108	2	80.5	0	0	0
13202	3	105.1	0	0	0
13206	2	75.2	0	0	0
13210	2	77.9	0	0	0
13304	2	77.9	0	0	0
13308	2	80.5	0	0	0
13402	3	105.1	0	0	0
13406	2	75.2	0	0	0
13410	2	77.9	0	0	0
13504	3	122.5	0	0	0
13604	3	122.5	0	0	0
1804	2	78.9	0	0	0
1808	2	78.7	0	0	0
1902	2	83.9	0	0	0
1906	1	50.2	0	0	0
1910	1	53.2	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)
12803	3	105.1	0	0	0
12807	2	79.5	0	0	0
12901	2	77.9	0	0	0
12905	2	77.9	0	0	0
12909	1	53.2	0	0	0
13003	3	105.1	0	0	0
13007	2	79.5	0	0	0
13101	2	77.9	0	0	0
13105	2	77.9	0	0	0
13109	1	53.2	0	0	0
13203	3	105.1	0	0	0
13207	2	79.5	0	0	0
13301	2	77.9	0	0	0
13305	2	77.9	0	0	0
13309	1	53.2	0	0	0
13403	3	105.1	0	0	0
13407	2	79.5	0	0	0
13501	4+	136	0	0	0
13601	4+	136	0	0	0
1801	2	78.9	0	0	0
1805	2	73.4	0	0	0
1809	2	81.7	0	0	0
1903	2	83.9	0	0	0
1907	1	49.4	0	0	0
1911	3	103.3	0	0	0

Residential flat buildings - Building2, 284 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)
21001	2	77	0	0	0
21005	2	79.3	0	0	0
21009	2	84	0	0	0
21104	2	74	0	0	0
21108	3	91	0	0	0
21203	1	49.3	0	0	0
21207	2	76.5	0	0	0
21302	1	51	0	0	0
21306	2	79.3	0	0	0
21401	2	77	0	0	0
21405	2	79.3	0	0	0
21409	2	84	0	0	0
21504	2	74	0	0	0
21508	3	91	0	0	0
21603	1	49.3	0	0	0
21607	2	76.5	0	0	0
21702	1	51	0	0	0
21706	2	79.3	0	0	0
21801	2	77	0	0	0
21805	2	79.3	0	0	0
21809	2	84	0	0	0
21904	2	74	0	0	0
21908	3	91	0	0	0
22003	1	49.3	0	0	0
22007	2	76.5	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)
21002	1	51	0	0	0
21006	2	79.3	0	0	0
21101	2	77	0	0	0
21105	2	79.3	0	0	0
21109	2	84	0	0	0
21204	2	74	0	0	0
21208	3	91	0	0	0
21303	1	49.3	0	0	0
21307	2	76.5	0	0	0
21402	1	51	0	0	0
21406	2	79.3	0	0	0
21501	2	77	0	0	0
21505	2	79.3	0	0	0
21509	2	84	0	0	0
21604	2	74	0	0	0
21608	3	91	0	0	0
21703	1	49.3	0	0	0
21707	2	76.5	0	0	0
21802	1	51	0	0	0
21806	2	79.3	0	0	0
21901	2	77	0	0	0
21905	2	79.3	0	0	0
21909	2	84	0	0	0
22004	2	74	0	0	0
22008	3	91	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)
21003	1	49.3	0	0	0
21007	2	76.5	0	0	0
21102	1	51	0	0	0
21106	2	79.3	0	0	0
21201	2	77	0	0	0
21205	2	79.3	0	0	0
21209	2	84	0	0	0
21304	2	74	0	0	0
21308	3	91	0	0	0
21403	1	49.3	0	0	0
21407	2	76.5	0	0	0
21502	1	51	0	0	0
21506	2	79.3	0	0	0
21601	2	77	0	0	0
21605	2	79.3	0	0	0
21609	2	84	0	0	0
21704	2	74	0	0	0
21708	3	91	0	0	0
21803	1	49.3	0	0	0
21807	2	76.5	0	0	0
21902	1	51	0	0	0
21906	2	79.3	0	0	0
22001	2	77	0	0	0
22005	2	79.3	0	0	0
22009	2	84	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)
21004	2	74	0	0	0
21008	3	91	0	0	0
21103	1	49.3	0	0	0
21107	2	76.5	0	0	0
21202	1	51	0	0	0
21206	2	79.3	0	0	0
21301	2	77	0	0	0
21305	2	79.3	0	0	0
21309	2	84	0	0	0
21404	2	74	0	0	0
21408	3	91	0	0	0
21503	1	49.3	0	0	0
21507	2	76.5	0	0	0
21602	1	51	0	0	0
21606	2	79.3	0	0	0
21701	2	77	0	0	0
21705	2	79.3	0	0	0
21709	2	84	0	0	0
21804	2	74	0	0	0
21808	3	91	0	0	0
21903	1	49.3	0	0	0
21907	2	76.5	0	0	0
22002	1	51	0	0	0
22006	2	79.3	0	0	0
22101	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)
22102	1	51	0	0	0
22106	2	79.3	0	0	0
22201	2	77	0	0	0
22205	2	79.3	0	0	0
22209	2	84	0	0	0
22304	2	74	0	0	0
22308	3	91	0	0	0
22403	1	49.3	0	0	0
22407	2	76.5	0	0	0
22502	1	51	0	0	0
22506	2	79.3	0	0	0
22601	2	77	0	0	0
22605	2	79.3	0	0	0
22609	2	84	0	0	0
22704	2	74	0	0	0
22708	3	91	0	0	0
22803	3	92.5	0	0	0
22807	3	91	0	0	0
22903	3	92.5	0	0	0
22907	3	91	0	0	0
23003	3	92.5	0	0	0
23007	3	91	0	0	0
23103	3	92.5	0	0	0
23107	3	91	0	0	0
23203	3	92.5	0	0	0
23207	3	91	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)
22103	1	49.3	0	0	0
22107	2	76.5	0	0	0
22202	1	51	0	0	0
22206	2	79.3	0	0	0
22301	2	77	0	0	0
22305	2	79.3	0	0	0
22309	2	84	0	0	0
22404	2	74	0	0	0
22408	3	91	0	0	0
22503	1	49.3	0	0	0
22507	2	76.5	0	0	0
22602	1	51	0	0	0
22606	2	79.3	0	0	0
22701	2	77	0	0	0
22705	2	79.3	0	0	0
22709	2	84	0	0	0
22804	2	79.3	0	0	0
22808	2	84	0	0	0
22904	2	79.3	0	0	0
22908	2	84	0	0	0
23004	2	79.3	0	0	0
23008	2	84	0	0	0
23104	2	79.3	0	0	0
23108	2	84	0	0	0
23204	2	79.3	0	0	0
23208	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)
22104	2	74	0	0	0
22108	3	91	0	0	0
22203	1	49.3	0	0	0
22207	2	76.5	0	0	0
22302	1	51	0	0	0
22306	2	79.3	0	0	0
22401	2	77	0	0	0
22405	2	79.3	0	0	0
22409	2	84	0	0	0
22504	2	74	0	0	0
22508	3	91	0	0	0
22603	1	49.3	0	0	0
22607	2	76.5	0	0	0
22702	1	51	0	0	0
22706	2	79.3	0	0	0
22801	2	76.9	0	0	0
22805	2	79.3	0	0	0
22901	2	76.9	0	0	0
22905	2	79.3	0	0	0
23001	2	76.9	0	0	0
23005	2	79.3	0	0	0
23101	2	76.9	0	0	0
23105	2	79.3	0	0	0
23201	2	76.9	0	0	0
23205	2	79.3	0	0	0
23301	2	76.9	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)
22105	2	79.3	0	0	0
22109	2	84	0	0	0
22204	2	74	0	0	0
22208	3	91	0	0	0
22303	1	49.3	0	0	0
22307	2	76.5	0	0	0
22402	1	51	0	0	0
22406	2	79.3	0	0	0
22501	2	77	0	0	0
22505	2	79.3	0	0	0
22509	2	84	0	0	0
22604	2	74	0	0	0
22608	3	91	0	0	0
22703	1	49.3	0	0	0
22707	2	76.5	0	0	0
22802	2	79.3	0	0	0
22806	2	76.5	0	0	0
22902	2	79.3	0	0	0
22906	2	76.5	0	0	0
23002	2	79.3	0	0	0
23006	2	76.5	0	0	0
23102	2	79.3	0	0	0
23106	2	76.5	0	0	0
23202	2	79.3	0	0	0
23206	2	76.5	0	0	0
23302	2	79.3	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)
23303	3	92.5	0	0	0
23307	3	91	0	0	0
23403	3	91	0	0	0
23503	2	76.9	0	0	0
2803	1	49.3	0	0	0
2807	2	76.5	0	0	0
2902	1	51	0	0	0
2906	2	79.3	0	0	0
P201	3	101.4	0	0	0
P205	2	79.3	0	0	0
P301	3	101.4	0	0	0
P305	2	79.3	0	0	0
P401	3	101.4	0	0	0
P405	2	79.3	0	0	0
P501	3	101.4	0	0	0
P505	2	79.3	0	0	0
P601	3	101.4	0	0	0
P605	2	79.3	0	0	0
P701	3	100.3	0	0	0
P705	2	79.3	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)
23304	2	79.3	0	0	0
23308	2	84	0	0	0
23404	2	84	0	0	0
23504	2	79.3	0	0	0
2804	2	74	0	0	0
2808	3	91	0	0	0
2903	1	49.3	0	0	0
2907	2	76.5	0	0	0
P202	3	101.3	0	0	0
P206	2	79.3	0	0	0
P302	3	101.3	0	0	0
P306	2	79.3	0	0	0
P402	3	101.3	0	0	0
P406	2	79.3	0	0	0
P502	3	101.3	0	0	0
P506	2	79.3	0	0	0
P602	3	101.3	0	0	0
P606	2	79.3	0	0	0
P702	3	101.3	0	0	0
P706	2	79.3	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)
23305	2	79.3	0	0	0
23401	2	76.9	0	0	0
23501	3	91	0	0	0
2801	2	77	0	0	0
2805	2	79.3	0	0	0
2809	2	84	0	0	0
2904	2	74	0	0	0
2908	3	91	0	0	0
P203	3	101.3	0	0	0
P207	2	76.5	0	0	0
P303	3	101.3	0	0	0
P307	2	76.5	0	0	0
P403	3	101.3	0	0	0
P407	2	76.5	0	0	0
P503	3	101.3	0	0	0
P507	2	76.5	0	0	0
P603	3	101.3	0	0	0
P607	2	76.5	0	0	0
P703	3	101.3	0	0	0
P707	2	76.5	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)
23306	2	76.5	0	0	0
23402	2	79.3	0	0	0
23502	2	84	0	0	0
2802	1	51	0	0	0
2806	2	79.3	0	0	0
2901	2	77	0	0	0
2905	2	79.3	0	0	0
2909	2	84	0	0	0
P204	2	69.3	0	0	0
P208	3	90.4	0	0	0
P304	2	69.3	0	0	0
P308	3	90.4	0	0	0
P404	2	69.3	0	0	0
P408	3	90.4	0	0	0
P504	2	69.3	0	0	0
P508	3	90.4	0	0	0
P604	2	69.3	0	0	0
P608	3	90.4	0	0	0
P704	2	69.3	0	0	0
P708	3	90.4	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)
Car park area	31455	Car park area (shared entry and loading)	1300	Garbage rooms	865
Plant/Services	375	Bicycle store rooms	110	Communal area	55
Ground floor lobby	196	Hallway/lobby type	4710		

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	759.6	-	-
suspended floor above enclosed subfloor, frame: suspended concrete slab	54	-	-
floors above habitable rooms, frame: suspended concrete slab	23129	-	-

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	14205.2	-	-
External wall type 2	off form concrete, frame: no frame	2560.1	none	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	16728.9	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	9646.7	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
no	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1180	-	-

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)
-	6999	-	6999	-	-	-	-

(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	interlocked to light with timer off	individual fan, ducted to façade	manual switch on/off	individual fan, ducted to façade	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)
11001	15.4	7.7	23.100
11002	4.1	8.5	12.600
11004	19.4	6.7	26.100
11005	8.7	7.4	16.100

	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)
11006	9.9	10.8	20.700
11007	3.9	7.4	11.300
11008	16.1	3.4	19.500
11009	19.2	3.2	22.400
11010	18.3	5.2	23.500
11011	12.3	7	19.300
11101	15.6	7.7	23.300
11102	4.3	8.8	13.100
11103	4.3	8.7	13.000
11104	19.7	6.9	26.600
11105	9	7.5	16.500
11106	10.1	10.4	20.500
11107	4	7.6	11.600
11108	16.4	3.7	20.100
11109	19.5	3	22.500
11111	12.6	6.9	19.500
11201	15.7	7.6	23.300
11202	4.4	9	13.400
11203	4.5	8.8	13.300
11204	19.9	6.8	26.700
11205	9.1	7.4	16.500
11206	10.2	10.5	20.700
11207	4.1	7.1	11.200
11208	16.5	3.4	19.900
11209	19.6	3.2	22.800
11211	12.7	6.9	19.600
11301	15.9	7.2	23.100
11302	4.4	9.3	13.700
11303	4.5	8.7	13.200
11304	20	6.8	26.800
11305	9.2	7.6	16.800

	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)
11306	10.4	9.5	19.900
11307	4.2	7.5	11.700
11308	16.6	3.4	20.000
11309	19.7	3.2	22.900
11311	12.8	6.9	19.700
11401	16	7.5	23.500
11402	4.4	9.2	13.600
11403	4.6	8.7	13.300
11404	20.2	6.8	27.000
11405	9.4	7.7	17.100
11406	10.5	9.6	20.100
11407	4.1	6.6	10.700
11408	16.7	3.8	20.500
11409	19.9	3	22.900
11410	4.9	8.5	13.400
11411	12.9	6.9	19.800
11501	16.3	7.2	23.500
11502	4.6	9.1	13.700
11503	4.7	8.6	13.300
11504	20.5	6.8	27.300
11505	9.6	8	17.600
11506	10.8	9.2	20.000
11507	4.4	7.6	12.000
11508	17	3.6	20.600
11509	20.1	3.1	23.200
11510	5	8.6	13.600
11511	13.2	6.8	20.000
11601	16.5	7.4	23.900
11604	20.7	7.1	27.800
11605	9.8	7.8	17.600
11606	10.9	9.5	20.400

	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)
11607	4.5	7.6	12.100
11608	17.2	3.6	20.800
11609	20.3	3.1	23.400
11610	5.2	8.7	13.900
11611	13.5	7.1	20.600
11701	16.7	7.3	24.000
11702	4.6	11.1	15.700
11703	5	8.3	13.300
11704	20.8	6.8	27.600
11705	9.8	7.3	17.100
11706	15	8.2	23.200
11707	9.4	8.2	17.600
11710	5.3	8.6	13.900
11711	13.2	6.6	19.800
11801	17	7.6	24.600
11802	4.8	9	13.800
11803	5.2	8.4	13.600
11804	21	6.7	27.700
11805	10.1	7.9	18.000
11806	16.2	8.2	24.400
11807	9.5	7.5	17.000
11810	5.3	7.6	12.900
11811	13	9.8	22.800
11901	16.4	7.5	23.900
11904	20.6	8	28.600
11905	20.2	11.9	32.100
11906	19.1	11.1	30.200
11907	16.2	4	20.200
11910	20.4	6.6	27.000
12001	16.8	7	23.800
12002	6.1	11.6	17.700

	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)
12004	20.7	7.9	28.600
12005	19.8	11.6	31.400
12006	19.2	11.1	30.300
12007	18.4	3.8	22.200
12008	20.8	3.3	24.100
12010	21	6.1	27.100
12101	16.7	7.2	23.900
12102	6	11.7	17.700
12104	20.7	8	28.700
12105	19.8	11.5	31.300
12106	19.2	10.9	30.100
12107	18.3	3.8	22.100
12110	20.9	6	26.900
12201	16.8	7.4	24.200
12202	6.2	11.4	17.600
12203	6.1	10.6	16.700
12204	20.9	8.1	29.000
12205	20	11.9	31.900
12206	17.7	12.6	30.300
12207	16.7	3.9	20.600
12209	5.5	8.4	13.900
12210	21.1	6	27.100
12301	16.9	7.1	24.000
12303	6.3	10.8	17.100
12304	21	7.9	28.900
12305	20.2	11.7	31.900
12306	19.4	10.9	30.300
12307	18.6	4	22.600
12308	20.7	3.4	24.100
12309	5.6	8.2	13.800
12310	21.1	6.2	27.300

	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)
12401	17.1	7.5	24.600
12403	6.4	10.7	17.100
12404	21.2	8.1	29.300
12405	20.3	11.7	32.000
12406	19.5	10.8	30.300
12407	18.6	3.9	22.500
12408	20.7	3.5	24.200
12410	21.2	6.1	27.300
12501	17.1	7.3	24.400
12503	6.3	10.6	16.900
12504	21.4	8	29.400
12505	20.4	11.6	32.000
12506	19.6	10.8	30.400
12507	16.9	4.1	21.000
12508	20.7	3.6	24.300
12510	21.3	6.1	27.400
12601	17.2	7.2	24.400
12602	6.4	11.7	18.100
12603	6.5	11	17.500
12604	21.5	7.9	29.400
12605	20.6	11.7	32.300
12606	19.7	10.8	30.500
12607	18.6	4.1	22.700
12608	20.7	3.7	24.400
12609	5.8	8.2	14.000
12610	21.3	6.5	27.800
12701	16.8	7.2	24.000
12702	6.4	11	17.400
12703	6.5	10.7	17.200
12704	21.6	7.7	29.300
12705	20.6	10.5	31.100

	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)
12706	18.3	6.8	25.100
12707	16.6	4.1	20.700
12708	20.4	3.6	24.000
12709	6	8.7	14.700
12710	22.6	7.2	29.800
12801	16.9	7.4	24.300
12803	6.6	11	17.600
12804	21.8	7.7	29.500
12806	18.5	6.6	25.100
12807	19.1	4.1	23.200
12808	20.5	3.8	24.300
12809	5.9	8.4	14.300
12810	22.3	7.4	29.700
12901	16.9	7.5	24.400
12902	6.5	11.6	18.100
12903	6.6	10.7	17.300
12905	20.9	10.4	31.300
12906	18.5	6.7	25.200
12907	19.2	4.1	23.300
12908	20	3.8	23.800
12909	6	8.6	14.600
12910	22.4	8.1	30.500
13001	16.8	7.9	24.700
13002	6.5	11.3	17.800
13003	6.5	10.8	17.300
13005	20.9	10.7	31.600
13006	18.7	6.6	25.300
13007	17.1	4.2	21.300
13008	19.5	3.8	23.300
13009	6	8.5	14.500
13010	22.2	8.3	30.500

	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)
13101	16.9	8.5	25.400
13102	6.5	11.4	17.900
13104	22.1	7.8	29.900
13106	18.9	6.6	25.500
13107	19.3	4.1	23.400
13108	19.3	3.9	23.200
13109	6.1	8.6	14.700
13110	22.1	10	32.100
13201	16.9	8.8	25.700
13202	6.4	11.3	17.700
13203	6.7	10.8	17.500
13205	21.2	10.4	31.600
13206	18.6	6.3	24.900
13207	17.2	4.2	21.400
13208	18.8	4	22.800
13209	6.2	8.5	14.700
13210	22	11.7	33.700
13301	16.8	9.3	26.100
13302	6.3	11.7	18.000
13305	21.2	10.7	31.900
13306	18.7	6.2	24.900
13307	19.5	4.1	23.600
13308	17.7	4	21.700
13309	6.2	8.6	14.800
13310	21.8	12.6	34.400
13401	17.7	10.3	28.000
13402	6.8	11.9	18.700
13403	7.3	11.2	18.500
13404	23.3	7.7	31.000
13405	21.4	10.8	32.200
13406	27	8.3	35.300

	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)
13407	27.7	5.8	33.500
13408	27	5.1	32.100
13409	13.4	9.7	23.100
13410	21.8	13.9	35.700
13501	15.6	8.7	24.300
13502	16.3	8.1	24.400
13503	17.9	19.9	37.800
13504	13.1	15.4	28.500
13601	27.2	10.4	37.600
13602	26.8	9.4	36.200
13603	20.1	17.4	37.500
13604	19.5	18.3	37.800
1801	26.1	6.9	33.000
1802	6.7	7.5	14.200
1803	7.2	8.5	15.700
1804	30.3	5.7	36.000
1805	18.4	5.4	23.800
1806	22.1	7.1	29.200
1807	14.5	7.1	21.600
1808	25.4	3.2	28.600
1809	32.9	2.5	35.400
1810	30	3.9	33.900
1901	15.3	7.9	23.200
1902	4.3	11	15.300
1904	19.3	6.7	26.000
1905	8.6	7.4	16.000
1906	10.2	8.5	18.700
1907	3.8	7.2	11.000
1908	16	3.8	19.800
1909	19.2	2.6	21.800
1910	3.7	8.4	12.100

	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)
1911	12.2	7	19.200
11003, 1903	4.2	8.7	12.900
11210, 11310	4.8	8.8	13.600
11708, 11808	17.6	3.7	21.300
11902, 11903	6.1	11.4	17.500
12003, 12103	6.1	10.8	16.900
12302, 12402	6.3	11.6	17.900
12409, 12509	5.7	8	13.700
12502, 12802	6.4	11.5	17.900
12805, 13105	20.8	10.5	31.300
12904, 13004	21.9	7.8	29.700
13103, 13303	6.7	10.6	17.300
13204, 13304	22.2	7.7	29.900
11110, 11602, 11603	4.7	8.7	13.400
11909, 12009, 12109	5.4	8.4	13.800
All other dwellings	20.7	3.3	24.000

(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	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 with apartments served by a lift: 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	294.1	-	-
suspended floor above enclosed subfloor, frame: suspended concrete slab	258	-	-
floors above habitable rooms, frame: suspended concrete slab	23200	-	-

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	13260.7	-	-
External wall type 2	off form concrete, frame: no frame	909.2	none	-

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame: light steel frame	16485.5	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 2	75 mm AAC panel, frame:light steel frame	9605.9	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
no	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	995	-	-

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)
-	7325.1	-	7325.1	-	-	-	-

(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	interlocked to light with timer off	individual fan, ducted to façade	manual switch on/off	individual fan, ducted to façade	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)
21001	23.3	5.7	29.000
21002	28.5	7.9	36.400
21003	23.5	6	29.500
21004	25.1	12.8	37.900

	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)
21005	15.9	8.6	24.500
21006	18.8	8.8	27.600
21007	9.3	17.9	27.200
21008	4.9	6.2	11.100
21009	20.8	4.8	25.600
21101	24.1	4.1	28.200
21102	28.8	7.9	36.700
21103	23.8	6	29.800
21104	23.1	11.5	34.600
21105	16.3	8.7	25.000
21106	19.1	8.8	27.900
21107	9.5	17.5	27.000
21108	5	6.1	11.100
21109	21.1	4.9	26.000
21201	23.8	5.5	29.300
21202	28.9	7.8	36.700
21203	24	6	30.000
21204	23.2	11.3	34.500
21205	18.2	8.4	26.600
21206	21.3	9.4	30.700
21207	10.3	16.2	26.500
21208	5.1	6	11.100
21209	21.2	4.6	25.800
21301	23.9	5.5	29.400
21302	29.1	7.8	36.900
21303	24.1	6	30.100
21304	23.3	11.3	34.600
21305	16.5	8.4	24.900
21306	19.5	8.7	28.200
21307	9.7	17.6	27.300
21308	5.2	6.10	11.300

	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)
21309	21.4	4.9	26.300
21401	24.1	5.5	29.600
21402	29.3	7.7	37.000
21403	24.2	6	30.200
21404	23.4	11.4	34.800
21405	16.7	8.3	25.000
21406	19.6	9.2	28.800
21407	9.8	17.7	27.500
21408	5.3	6.0	11.300
21409	21.5	4.7	26.200
21501	24.4	5.5	29.900
21502	29.6	7.8	37.400
21503	24.5	6	30.500
21504	23.7	11.1	34.800
21505	17	8.5	25.500
21506	20	9.1	29.100
21507	10	17.1	27.100
21508	5.4	6.1	11.500
21509	21.9	5.2	27.100
21601	24.6	5.5	30.100
21602	29.8	7.8	37.600
21603	24.7	6	30.700
21604	23.9	11.1	35.000
21605	17.1	8.6	25.700
21606	20.1	9.3	29.400
21607	10.1	17.4	27.500
21608	5.6	6.3	11.900
21609	21.1	4.6	25.700
21701	27	5.2	32.200
21702	29	7.3	36.300
21704	25.4	9.6	35.000

	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)
21705	19.2	8.2	27.400
21706	22.3	8.4	30.700
21707	10.8	15.8	26.600
21708	7.9	5.5	13.400
21709	23.9	4.8	28.700
21801	24.7	5.4	30.100
21803	24.8	5.7	30.500
21804	24	11	35.000
21805	17.5	8.4	25.900
21806	20.4	9.2	29.600
21807	10.4	17.2	27.600
21808	6	5.8	11.800
21809	22.3	5	27.300
21901	24.9	5.5	30.400
21902	30	7.4	37.400
21904	24.1	11	35.100
21905	17.7	8.5	26.200
21906	20.6	9.3	29.900
21907	10.5	16.6	27.100
21908	6.1	5.9	12.000
21909	22.4	5	27.400
22001	25	5.5	30.500
22002	30	7.3	37.300
22004	24.2	11	35.200
22006	21.1	8.7	29.800
22007	10.7	15.4	26.100
22009	22.5	5.1	27.600
22101	24.9	5.6	30.500
22104	24.2	10.9	35.100
22106	21.1	8.9	30.000
22107	10.8	15.3	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)
22109	22.5	5.2	27.700
22201	27	6	33.000
22202	29.1	7	36.100
22204	25.8	9.6	35.400
22205	20.1	8.1	28.200
22206	23.4	8	31.400
22207	11.4	14	25.400
22208	8.3	5.5	13.800
22209	24.6	5	29.600
22301	25.1	5.9	31.000
22302	29.9	7.6	37.500
22304	24.4	10.6	35.000
22305	18.5	8.7	27.200
22306	21.5	8.7	30.200
22307	10.9	15.2	26.100
22309	22.7	5.1	27.800
22401	25.2	6.4	31.600
22402	29.9	7.8	37.700
22404	24.5	10.6	35.100
22405	18.6	8.5	27.100
22406	21.6	8.7	30.300
22407	11.2	15.7	26.900
22409	22.8	5.3	28.100
22501	25.2	6.9	32.100
22502	29.8	8.1	37.900
22504	24.7	10.7	35.400
22505	18.7	8.8	27.500
22506	21.8	8.7	30.500
22507	11.3	15.6	26.900
22508	6.6	5.9	12.500
22509	23	5.5	28.500

	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)
22601	25.3	7.7	33.000
22602	23.7	7.5	31.200
22603	24.6	5.7	30.300
22604	24.9	10.4	35.300
22605	18.8	8.5	27.300
22606	21.9	8.8	30.700
22607	11.4	15.5	26.900
22608	6.5	5.9	12.400
22609	22.9	5.6	28.500
22701	25.4	7.7	33.100
22702	27.7	7.4	35.100
22704	27	9.3	36.300
22705	23.1	7.8	30.900
22706	24.7	8.1	32.800
22707	12.1	14	26.100
22708	9	5.6	14.600
22709	25.1	5.4	30.500
22801	25.1	8.7	33.800
22802	25.8	5.3	31.100
22803	26.1	9.8	35.900
22804	19.4	8.4	27.800
22805	22.5	8.7	31.200
22806	11.7	14.9	26.600
22807	6.7	6	12.700
22808	23	5.9	28.900
22901	25.1	9.5	34.600
22902	25.6	5.7	31.300
22903	26.2	10	36.200
22904	19.6	8.4	28.000
22905	22.6	8.7	31.300
22906	11.8	14.5	26.300

	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)
22908	23	6.2	29.200
23001	24.6	10.2	34.800
23002	25.4	5.8	31.200
23003	26.3	10	36.300
23006	11.6	14.7	26.300
23008	22.4	6.2	28.600
23101	24.2	10.3	34.500
23102	25.2	5.7	30.900
23103	26.4	9.9	36.300
23106	12.1	15.5	27.600
23108	22	6.7	28.700
23201	22.9	10.5	33.400
23203	26.5	9.9	36.400
23204	19.9	8.4	28.300
23205	23	8.7	31.700
23206	11.8	15.3	27.100
23208	21.5	7.1	28.600
23301	21.4	11	32.400
23303	26.7	9.8	36.500
23304	22.6	9	31.600
23305	25.2	9	34.200
23306	16.7	15	31.700
23308	21	7.2	28.200
23401	20.9	11.1	32.000
23402	25.6	5.5	31.100
23403	10.4	7	17.400
23404	15.5	6.2	21.700
23501	17.9	8.3	26.200
23502	22.4	8.3	30.700
23503	24.4	11.9	36.300
23504	30.8	6.9	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)
2801	33.5	2.7	36.200
2802	30.4	6.7	37.100
2803	29.9	4.1	34.000
2804	24.6	13	37.600
2805	15.6	8.7	24.300
2806	18.3	8.6	26.900
2807	10	16.7	26.700
2808	5.5	5.3	10.800
2809	31.1	3.6	34.700
2901	23.6	4	27.600
2902	28.3	7.2	35.500
2903	23.4	5.5	28.900
2904	24.9	13	37.900
2905	15.9	8.7	24.600
2906	18.6	8.8	27.400
2907	9.1	17.5	26.600
2908	4.8	5.6	10.400
2909	20.6	4.7	25.300
P201	25.4	10.8	36.200
P202	11.3	12.6	23.900
P203	11	11.1	22.100
P204	13.5	19.3	32.800
P205	10.7	10.8	21.500
P206	11.9	12	23.900
P207	3.3	15	18.300
P208	11.70	9.6	21.300
P301	28.8	7.5	36.300
P302	11.1	11.3	22.400
P303	12.6	8.3	20.900
P304	18	19.4	37.400
P305	11.6	9.6	21.200

	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)
P306	12.8	10.1	22.900
P307	3.1	15	18.100
P308	12	8.9	20.900
P401	27.8	8.7	36.500
P402	10.9	10.6	21.500
P403	13	9.2	22.200
P404	18.7	18.3	37.000
P405	12.8	9.5	22.300
P406	13.8	10.2	24.000
P407	4.5	19.5	24.000
P408	12.7	8.9	21.600
P501	29.2	7.8	37.000
P502	12.1	11.2	23.300
P503	13.6	8.2	21.800
P504	19.3	18	37.300
P505	13.2	9.3	22.500
P506	14.3	10	24.300
P507	3.4	10.8	14.200
P508	13.1	8.9	22.000
P601	27.3	8.5	35.800
P602	11.5	10.7	22.200
P603	13.6	8.9	22.500
P604	19.4	17.6	37.000
P605	13.5	9.2	22.700
P606	14.6	10	24.600
P607	3.5	11.2	14.700
P608	11.1	7.9	19.000
P701	29.1	8.7	37.800
P702	24	13.8	37.800
P703	25.1	10.4	35.500
P704	19.6	12.9	32.500

	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)
P705	13.9	9.1	23.000
P706	15.1	9.8	24.900
P707	3.7	10.5	14.200
P708	13.9	8.9	22.800
21703, 22703	24.7	5.8	30.500
21802, 22102	29.9	7.3	37.200
21903, 22103	24.9	5.8	30.700
22003, 23202	25	5.8	30.800
22005, 22105	18.1	8.7	26.800
22008, 22108	6.2	6.0	12.200
22203, 22303	24.9	5.9	30.800
22308, 22408	6.4	6.0	12.400
23004, 23104	19.7	8.4	28.100
23005, 23105	22.8	8.7	31.500
23207, 23307	6.9	6.1	13.000
22403, 22503, 23302	24.8	5.9	30.700
All other dwellings	6.8	6	12.800

(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	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 with apartments served by a lift: 34 number of levels from the bottom of the lift shaft to the top of the lift shaft: 36 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	779.12	-	none
garage floor, frame: suspended concrete slab	34612.03	-	none
suspended floor above enclosed subfloor, frame: suspended concrete slab	6310.14	-	-
suspended floor above open subfloor, frame: suspended concrete slab	6468	-	-

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: - 1200 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 3255 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
Car park area	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	zoned switching with motion sensor	no
Car park area (shared entry and loading)	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
Plant/Services	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	manual on / manual off	no
Bicycle store rooms	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	no
Communal area	ventilation supply only	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	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.planningportal.nsw.gov.au/development-and-assessment/basix

Multi Dwelling

Certificate number: 1771734M_04

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

This certificate is a revision of certificate number 1771734M submitted to the consent authority or certifier on 30 January 2025 with application SSD-70283710.

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

Secretary

Date of issue: Friday, 17 July 2026

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.



When submitting this BASIX certificate with a development application or complying development certificate application, it must be accompanied by NatHERS certificate HR-D3AYXW-01.

Project summary

Project name	1 Crescent Street Holroyd - Phase 1 (T3)_04
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	162
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

Project score

Water	✓ 41	Target 40
Thermal Performance (Simulation method)	✓ Pass	Target Pass
Energy	✓ 64	Target 63
Materials	✓ -22	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)_04
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	162
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	37904
Roof area (m²)	895
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)	220	
Area of indigenous or low water use species (m²)	0	
Assessor details and thermal loads		
Assessor number	HERA10033	
Certificate number	HR-D3AYXW-01	
Climate zone	56	
Project score		
Water	41	Target 40
Thermal Performance (Simulation method)	Pass	Target Pass
Energy	64	Target 63
Materials	-22	Target n/a

Description of project

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

Residential flat buildings - Building 3, 162 dwellings, 27 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	75.4	0	0	0
31005	1	58.5	0	0	0
31009	2	75.4	0	0	0
31104	2	75.4	0	0	0
31108	2	74.7	0	0	0
31203	2	73.3	0	0	0
31207	1	55.2	0	0	0
31302	2	73.3	0	0	0
31306	1	53.5	0	0	0
31401	2	75.4	0	0	0
31405	1	58.5	0	0	0
31409	2	75.4	0	0	0
31504	2	75.4	0	0	0
31508	2	74.7	0	0	0
31603	2	73.3	0	0	0
31607	1	55.2	0	0	0
31702	2	73.3	0	0	0
31706	1	53.5	0	0	0
31801	2	75.4	0	0	0
31805	1	58.5	0	0	0
31901	2	75.4	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)
31002	2	73.3	0	0	0
31006	1	53.5	0	0	0
31101	2	75.4	0	0	0
31105	1	58.5	0	0	0
31109	2	75.4	0	0	0
31204	2	75.4	0	0	0
31208	2	74.7	0	0	0
31303	2	73.3	0	0	0
31307	1	55.2	0	0	0
31402	2	73.3	0	0	0
31406	1	53.5	0	0	0
31501	2	75.4	0	0	0
31505	1	58.5	0	0	0
31509	2	75.4	0	0	0
31604	2	75.4	0	0	0
31608	2	74.7	0	0	0
31703	2	73.3	0	0	0
31707	1	55.2	0	0	0
31802	2	73.3	0	0	0
31806	3	97.1	0	0	0
31902	2	73.3	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)
31003	2	73.3	0	0	0
31007	1	55.2	0	0	0
31102	2	73.3	0	0	0
31106	1	53.5	0	0	0
31201	2	75.4	0	0	0
31205	1	58.5	0	0	0
31209	2	75.4	0	0	0
31304	2	75.4	0	0	0
31308	2	74.7	0	0	0
31403	2	73.3	0	0	0
31407	1	55.2	0	0	0
31502	2	73.3	0	0	0
31506	1	53.5	0	0	0
31601	2	75.4	0	0	0
31605	1	58.5	0	0	0
31609	2	75.4	0	0	0
31704	2	75.4	0	0	0
31708	2	74.7	0	0	0
31803	2	73.3	0	0	0
31807	3	99.9	0	0	0
31903	2	73.3	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)
31004	2	75.4	0	0	0
31008	2	74.7	0	0	0
31103	2	73.3	0	0	0
31107	1	55.2	0	0	0
31202	2	73.3	0	0	0
31206	1	53.5	0	0	0
31301	2	75.4	0	0	0
31305	1	58.5	0	0	0
31309	2	75.4	0	0	0
31404	2	75.4	0	0	0
31408	2	74.7	0	0	0
31503	2	73.3	0	0	0
31507	1	55.2	0	0	0
31602	2	73.3	0	0	0
31606	1	53.5	0	0	0
31701	2	75.4	0	0	0
31705	1	58.5	0	0	0
31709	2	75.4	0	0	0
31804	2	75.4	0	0	0
31808	2	75.4	0	0	0
31904	2	75.4	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)
31905	1	58.5	0	0	0
32001	2	75.4	0	0	0
32005	1	58.5	0	0	0
32101	2	75.4	0	0	0
32105	1	58.5	0	0	0
32201	2	75.4	0	0	0
32205	1	58.5	0	0	0
32301	2	75.4	0	0	0
32305	1	58.5	0	0	0
32401	2	75.4	0	0	0
32405	1	58.5	0	0	0
32501	2	75.4	0	0	0
32505	1	58.5	0	0	0
32601	2	75.4	0	0	0
32605	1	58.5	0	0	0
3801	2	75.4	0	0	0
3805	1	58.5	0	0	0
3809	1	58.5	0	0	0
3904	2	75.4	0	0	0
3908	2	74.7	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)
31906	3	97.1	0	0	0
32002	2	73.3	0	0	0
32006	3	97.1	0	0	0
32102	2	73.3	0	0	0
32106	3	97.1	0	0	0
32202	2	73.3	0	0	0
32206	3	97.1	0	0	0
32302	2	73.3	0	0	0
32306	3	97.1	0	0	0
32402	2	73.3	0	0	0
32406	3	97.1	0	0	0
32502	2	73.3	0	0	0
32506	3	97.1	0	0	0
32602	2	73.3	0	0	0
32606	3	97.1	0	0	0
3802	2	73.3	0	0	0
3806	1	53.5	0	0	0
3901	2	75.4	0	0	0
3905	1	58.5	0	0	0
3909	2	75.4	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)
31907	3	99.9	0	0	0
32003	2	73.3	0	0	0
32007	3	99.9	0	0	0
32103	2	73.3	0	0	0
32107	3	99.9	0	0	0
32203	2	73.3	0	0	0
32207	3	99.9	0	0	0
32303	2	73.3	0	0	0
32307	3	99.9	0	0	0
32403	2	73.3	0	0	0
32407	3	99.9	0	0	0
32503	2	73.3	0	0	0
32507	3	99.9	0	0	0
32603	2	73.3	0	0	0
32607	3	99.9	0	0	0
3803	2	73.3	0	0	0
3807	1	55.2	0	0	0
3902	2	73.3	0	0	0
3906	1	53.5	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)
31908	2	75.4	0	0	0
32004	2	75.4	0	0	0
32008	2	75.4	0	0	0
32104	2	75.4	0	0	0
32108	2	75.4	0	0	0
32204	2	75.4	0	0	0
32208	2	75.4	0	0	0
32304	2	75.4	0	0	0
32308	2	75.4	0	0	0
32404	2	75.4	0	0	0
32408	2	75.4	0	0	0
32504	2	75.4	0	0	0
32508	2	75.4	0	0	0
32604	2	75.4	0	0	0
32608	2	75.4	0	0	0
3804	2	75.4	0	0	0
3808	2	74.7	0	0	0
3903	2	73.3	0	0	0
3907	1	55.2	0	0	0

Description of project

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

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building 3

(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 - Building 3

(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	12.2	-	-
suspended floor above open subfloor, frame: suspended concrete slab	1712	-	-
suspended floor above open subfloor, frame: suspended concrete slab	613.6	-	-
floors above habitable rooms, frame: suspended concrete slab	11755	-	-

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	7725.6	-	-

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 2	off form concrete,frame:no frame	853.5	none	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	9098.3	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	5147.2	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
no	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: light steel frame	895	-	-

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)
-	3262.7	-	3262.7	-	-	-	-

(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	interlocked to light with timer off	individual fan, ducted to façade	manual switch on/off	individual fan, ducted to façade	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	5.2	3.7	8.900
31002	8.6	5.5	14.100
31003	13	7.3	20.300
31004	20.5	3.9	24.400

	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	27.1	5.1	32.200
31006	30.6	7	37.600
31007	18.2	4.2	22.400
31008	9.7	6	15.700
31009	3.2	8.3	11.500
31101	5.3	4.3	9.600
31102	9	6.7	15.700
31103	14	9	23.000
31104	22.5	4.6	27.100
31105	28.1	5.6	33.700
31106	27.7	7.9	35.600
31107	18.2	6.7	24.900
31108	8.6	9.1	17.700
31109	5.6	5.1	10.700
31201	5.5	3.7	9.200
31202	8.9	5.6	14.500
31203	13.4	7.2	20.600
31204	21	4	25.000
31205	27.6	4.9	32.500
31206	28.2	7.5	35.700
31207	18.2	5.9	24.100
31208	9.5	6.1	15.600
31209	5.6	4.2	9.800
31301	5.4	4.2	9.600
31302	9.2	6.7	15.900
31303	14.3	8.9	23.200
31304	22.8	4.5	27.300
31305	28.4	5.7	34.100
31306	27.9	8.5	36.400
31307	18.5	6.2	24.700
31308	10.1	9	19.100

	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)
31309	5.8	5.1	10.900
31401	5.7	3.7	9.400
31402	9.1	5.5	14.600
31403	13.7	7.3	21.000
31404	21.3	3.9	25.200
31405	27.9	4.9	32.800
31406	28.5	7.2	35.700
31407	18.8	4.3	23.100
31408	9.4	6	15.400
31409	5.8	4.1	9.900
31501	5.7	4.3	10.000
31502	9.5	6.7	16.200
31503	14.7	8.8	23.500
31504	23.3	4.5	27.800
31505	28.9	5.5	34.400
31506	27.9	8.4	36.300
31507	18.8	6.2	25.000
31508	10.9	9	19.900
31509	6	5	11.000
31601	6	3.8	9.800
31602	9.4	5.4	14.800
31603	14.1	7.3	21.400
31604	21.8	4	25.800
31605	28.5	4.8	33.300
31606	28.9	7.2	36.100
31607	19.2	4.5	23.700
31608	10.7	5.9	16.600
31609	6	4.3	10.300
31701	5.8	4.3	10.100
31702	9.7	6.7	16.400
31703	14.9	8.4	23.300

	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)
31704	23.6	4.5	28.100
31705	29.2	5.3	34.500
31706	29	7.2	36.200
31707	19.4	5.8	25.200
31708	10.7	9	19.700
31709	4.1	8.9	13.000
31801	6.1	3.8	9.900
31802	9.7	5.4	15.100
31803	13.7	6.7	20.400
31804	22	3.8	25.800
31806	25.6	6.6	32.200
31807	8.7	5.7	14.400
31808	3.6	8	11.600
31902	10	6.8	16.800
31903	14.5	8.5	23.000
31904	23.9	4.5	28.400
31905	29.2	5.6	34.800
31906	25.8	8.5	34.300
31907	9	9.9	18.900
31908	6.3	4.9	11.200
32002	9.8	5.4	15.200
32003	13.9	6.4	20.300
32004	22.3	3.8	26.100
32005	28.8	4.9	33.700
32006	24	7.2	31.200
32007	8.9	5.5	14.400
32008	6.1	4.1	10.200
32102	10.1	6.8	16.900
32103	14.6	7.9	22.500
32104	24.1	4.6	28.700
32105	29.4	5.5	34.900

	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)
32106	25.9	8.4	34.300
32107	9	10.1	19.100
32108	6.4	4.9	11.300
32202	9.9	5.4	15.300
32203	13.9	6.5	20.400
32204	22.5	3.8	26.300
32206	24.1	6.9	31.000
32207	9	5.4	14.400
32208	6.2	4.1	10.300
32301	6.2	4.5	10.700
32302	10.2	6.9	17.100
32303	14.9	7.8	22.700
32304	24.4	4.6	29.000
32305	29.7	5.5	35.200
32306	26.2	8.6	34.800
32307	9.2	10.1	19.300
32308	6.5	4.9	11.400
32401	6.4	3.9	10.300
32402	10	5.5	15.500
32403	14.2	6.5	20.700
32404	22.8	3.9	26.700
32405	29.3	4.8	34.100
32406	24.5	7.1	31.600
32407	9.1	5.7	14.800
32408	6.3	4.1	10.400
32501	6.2	4.4	10.600
32502	10.4	7.2	17.600
32503	15.1	7.8	22.900
32504	24.7	4.6	29.300
32505	30	5.6	35.600
32506	26.5	8.7	35.200

	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)
32507	9.3	10	19.300
32508	6.7	4.9	11.600
32601	16.3	6	22.300
32602	18.6	6.7	25.300
32603	23.4	7.8	31.200
32604	29.1	5.1	34.200
32605	31.1	5.7	36.800
32606	29.7	7.7	37.400
32607	20	8.1	28.100
32608	16.8	6.6	23.400
3801	7.7	2.8	10.500
3802	14.7	6.7	21.400
3803	22.2	6.1	28.300
3804	22.9	3.4	26.300
3805	32.7	4.5	37.200
3806	30.2	5.4	35.600
3807	30.1	4.6	34.700
3808	22.3	4.3	26.600
3809	25.7	4	29.700
3901	5	4.2	9.200
3902	8.9	6.9	15.800
3903	13.6	8.9	22.500
3904	22	4.7	26.700
3905	27.5	5.6	33.100
3906	29.7	8	37.700
3907	17.8	6.6	24.400
3908	10.1	9.1	19.200
3909	4.2	9.4	13.600
31805, 32205	28.9	4.8	33.700
31901, 32101	6	4.4	10.400
All other dwellings	6.3	3.8	10.100

(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 exhaust only	none i.e., continuous	light-emitting diode	motion sensors	no
Ground floor entry lobby	ventilation supply only	time clock or BMS controlled	light-emitting diode	daylight sensors	no
Hallways	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 with apartments served by a lift: 19 number of levels from the bottom of the lift shaft to the top of the lift shaft: 27 number of lifts: 2 lift load capacity: ≥ 1001 kg but ≤ 1500 kg
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).

BASIX™ Certificate

Building Sustainability Index

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

Multi Dwelling

Certificate number: 1771727M_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.planningportal.nsw.gov.au/definitions

This certificate is a revision of certificate number 1771727M submitted to the consent authority or certifier on 30 January 2025 with application SSD-70283710.

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

Secretary

Date of issue: Thursday, 25 September 2025

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.



When submitting this BASIX certificate with a development application or complying development certificate application, it must be accompanied by NatHERS certificate HR-UDYI6E-01.

Project summary

Project name	1 Crescent Street Holroyd - Phase 2_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	279
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_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	279
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	37904
Roof area (m²)	1909.11
Non-residential floor area (m²)	189.97
Residential car spaces	276
Non-residential car spaces	0

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-UDYI6E-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, 134 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)
41001	2	74.6	0	0	0
41005	1	50.5	0	0	0
4101	3	100.2	0	0	0
4105	2	73.5	0	0	0
41104	1	50.1	0	0	0
41108	2	74.6	0	0	0
41204	1	50.1	0	0	0
41208	2	74.6	0	0	0
41304	1	50.1	0	0	0
41308	2	74.6	0	0	0
41404	1	50.1	0	0	0
41408	2	74.6	0	0	0
41504	1	50.1	0	0	0
41508	2	74.6	0	0	0
41604	1	50.1	0	0	0
41608	2	74.6	0	0	0
41704	1	50.1	0	0	0
41708	2	74.6	0	0	0
41804	1	50.1	0	0	0
41808	2	74.6	0	0	0
4204	1	50.5	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)
41002	2	84.6	0	0	0
41006	2	73.5	0	0	0
4102	3	88.6	0	0	0
41101	2	74.6	0	0	0
41105	1	50.5	0	0	0
41201	2	74.6	0	0	0
41205	1	50.5	0	0	0
41301	2	74.6	0	0	0
41305	1	50.5	0	0	0
41401	2	74.6	0	0	0
41405	1	50.5	0	0	0
41501	2	74.6	0	0	0
41505	1	50.5	0	0	0
41601	2	74.6	0	0	0
41605	1	50.5	0	0	0
41701	2	74.6	0	0	0
41705	1	50.5	0	0	0
41801	2	74.6	0	0	0
41805	1	50.5	0	0	0
4201	3	100.2	0	0	0
4205	2	73.5	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)
41003	3	88.6	0	0	0
41007	2	79.7	0	0	0
4103	1	50.1	0	0	0
41102	2	84.6	0	0	0
41106	2	73.5	0	0	0
41202	2	84.6	0	0	0
41206	2	73.5	0	0	0
41302	2	84.6	0	0	0
41306	2	73.5	0	0	0
41402	2	84.6	0	0	0
41406	2	73.5	0	0	0
41502	2	84.6	0	0	0
41506	2	73.5	0	0	0
41602	2	84.6	0	0	0
41606	2	73.5	0	0	0
41702	2	84.6	0	0	0
41706	2	73.5	0	0	0
41802	2	84.6	0	0	0
41806	2	73.5	0	0	0
4202	3	88.6	0	0	0
4301	3	100.2	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)
41004	1	50.1	0	0	0
41008	2	74.6	0	0	0
4104	1	50.5	0	0	0
41103	3	88.6	0	0	0
41107	2	79.7	0	0	0
41203	3	88.6	0	0	0
41207	2	79.7	0	0	0
41303	3	88.6	0	0	0
41307	2	79.7	0	0	0
41403	3	88.6	0	0	0
41407	2	79.7	0	0	0
41503	3	88.6	0	0	0
41507	2	79.7	0	0	0
41603	3	88.6	0	0	0
41607	2	79.7	0	0	0
41703	3	88.6	0	0	0
41707	2	79.7	0	0	0
41803	3	88.6	0	0	0
41807	2	79.7	0	0	0
4203	1	50.1	0	0	0
4302	3	88.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
4303	1	50.1	0	0	0
4402	2	84.6	0	0	0
4406	2	73.5	0	0	0
4503	3	88.6	0	0	0
4507	2	79.7	0	0	0
4603	3	88.6	0	0	0
4607	2	79.7	0	0	0
4703	3	88.6	0	0	0
4707	2	79.7	0	0	0
4803	3	88.6	0	0	0
4807	2	79.7	0	0	0
4903	3	88.6	0	0	0
4907	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)
4304	1	50.5	0	0	0
4403	3	88.6	0	0	0
4407	2	76.8	0	0	0
4504	1	50.1	0	0	0
4508	2	74.6	0	0	0
4604	1	50.1	0	0	0
4608	2	74.6	0	0	0
4704	1	50.1	0	0	0
4708	2	74.6	0	0	0
4804	1	50.1	0	0	0
4808	2	74.6	0	0	0
4904	1	50.1	0	0	0
4908	2	74.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
4305	2	73.5	0	0	0
4404	1	50.1	0	0	0
4501	2	74.6	0	0	0
4505	1	50.5	0	0	0
4601	2	74.6	0	0	0
4605	1	50.5	0	0	0
4701	2	74.6	0	0	0
4705	1	50.5	0	0	0
4801	2	74.6	0	0	0
4805	1	50.5	0	0	0
4901	2	74.6	0	0	0
4905	1	50.5	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)
4401	2	74.6	0	0	0
4405	1	50.5	0	0	0
4502	2	84.6	0	0	0
4506	2	73.5	0	0	0
4602	2	84.6	0	0	0
4606	2	73.5	0	0	0
4702	2	84.6	0	0	0
4706	2	73.5	0	0	0
4802	2	84.6	0	0	0
4806	2	73.5	0	0	0
4902	2	84.6	0	0	0
4906	2	73.5	0	0	0

Residential flat buildings - Building5, 145 dwellings, 18 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)
5001	4+	130.1	0	0	0
51001	3	104.5	0	0	0
51005	2	80.1	0	0	0
5101	2	88.4	0	0	0
51104	2	80.1	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)
5002	4+	138	0	0	0
51002	2	73.9	0	0	0
51006	2	75.8	0	0	0
51101	3	104.5	0	0	0
51105	2	80.1	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)
5003	4+	137.9	0	0	0
51003	2	75.8	0	0	0
51007	2	73.9	0	0	0
51102	2	73.9	0	0	0
51106	2	75.8	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)
5004	4+	126.2	0	0	0
51004	2	80.1	0	0	0
51008	3	104.6	0	0	0
51103	2	75.8	0	0	0
51107	2	73.9	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)
51108	3	104.6	0	0	0
51204	2	80.1	0	0	0
51208	3	104.6	0	0	0
51304	2	80.1	0	0	0
51308	3	104.6	0	0	0
51404	2	80.1	0	0	0
51408	3	104.6	0	0	0
51504	2	80.1	0	0	0
51508	3	104.6	0	0	0
51604	2	80.1	0	0	0
51608	3	104.6	0	0	0
51704	2	80.1	0	0	0
51708	3	104.6	0	0	0
51804	2	80.1	0	0	0
51808	3	104.6	0	0	0
51904	2	80.1	0	0	0
51908	3	104.6	0	0	0
5204	2	80.1	0	0	0
5302	2	75.8	0	0	0
5306	1	63.2	0	0	0
5404	2	80.1	0	0	0
5408	3	104.1	0	0	0
5504	2	80.1	0	0	0
5508	3	104.6	0	0	0
5604	2	80.1	0	0	0
5608	3	104.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
51201	3	104.5	0	0	0
51205	2	80.1	0	0	0
51301	3	104.5	0	0	0
51305	2	80.1	0	0	0
51401	3	104.5	0	0	0
51405	2	80.1	0	0	0
51501	3	104.5	0	0	0
51505	2	80.1	0	0	0
51601	3	104.5	0	0	0
51605	2	80.1	0	0	0
51701	3	104.5	0	0	0
51705	2	80.1	0	0	0
51801	3	104.5	0	0	0
51805	2	80.1	0	0	0
51901	3	104.5	0	0	0
51905	2	80.1	0	0	0
5201	1	58.7	5.3	0	0
5205	2	75.8	0	0	0
5303	2	80.1	0	0	0
5401	3	104.1	0	0	0
5405	2	80.1	0	0	0
5501	3	104.5	0	0	0
5505	2	80.1	0	0	0
5601	3	104.5	0	0	0
5605	2	80.1	0	0	0
5701	3	104.5	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)
51202	2	73.9	0	0	0
51206	2	75.8	0	0	0
51302	2	73.9	0	0	0
51306	2	75.8	0	0	0
51402	2	73.9	0	0	0
51406	2	75.8	0	0	0
51502	2	73.9	0	0	0
51506	2	75.8	0	0	0
51602	2	73.9	0	0	0
51606	2	75.8	0	0	0
51702	2	73.9	0	0	0
51706	2	75.8	0	0	0
51802	2	73.9	0	0	0
51806	2	75.8	0	0	0
51902	2	73.9	0	0	0
51906	2	75.8	0	0	0
5202	2	75.8	0	0	0
5206	1	63.2	0	0	0
5304	2	80.1	0	0	0
5402	2	73.9	0	0	0
5406	2	75.8	0	0	0
5502	2	73.9	0	0	0
5506	2	75.8	0	0	0
5602	2	73.9	0	0	0
5606	2	75.8	0	0	0
5702	2	73.9	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)
51203	2	75.8	0	0	0
51207	2	73.9	0	0	0
51303	2	75.8	0	0	0
51307	2	73.9	0	0	0
51403	2	75.8	0	0	0
51407	2	73.9	0	0	0
51503	2	75.8	0	0	0
51507	2	73.9	0	0	0
51603	2	75.8	0	0	0
51607	2	73.9	0	0	0
51703	2	75.8	0	0	0
51707	2	73.9	0	0	0
51803	2	75.8	0	0	0
51807	2	73.9	0	0	0
51903	2	75.8	0	0	0
51907	2	73.9	0	0	0
5203	2	80.1	0	0	0
5301	1	58.7	5.3	0	0
5305	2	75.8	0	0	0
5403	2	75.8	0	0	0
5407	2	73.9	0	0	0
5503	2	75.8	0	0	0
5507	2	73.9	0	0	0
5603	2	75.8	0	0	0
5607	2	73.9	0	0	0
5703	2	75.8	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)
5704	2	80.1	0	0	0
5708	3	104.6	0	0	0
5804	2	80.1	0	0	0
5808	3	104.6	0	0	0
5904	2	80.1	0	0	0
5908	3	104.6	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)
5705	2	80.1	0	0	0
5801	3	104.5	0	0	0
5805	2	80.1	0	0	0
5901	3	104.5	0	0	0
5905	2	80.1	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)
5706	2	75.8	0	0	0
5802	2	73.9	0	0	0
5806	2	75.8	0	0	0
5902	2	73.9	0	0	0
5906	2	75.8	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)
5707	2	73.9	0	0	0
5803	2	75.8	0	0	0
5807	2	73.9	0	0	0
5903	2	75.8	0	0	0
5907	2	73.9	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)
Car park area	8953	Garbage rooms	344.81	Mec vent plant or service rooms	217
Nat vent plant or service rooms	51	Communal area	88	Ground floor lobby	253
Mec vent Hallway/lobby type	2002				

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	204.4	-	-
floors above habitable rooms, frame: suspended concrete slab	9382.5	-	-
suspended floor above enclosed subfloor, frame: suspended concrete slab	68.9	-	-

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	3223.5	-	-
External wall type 2	off form concrete, frame: light steel frame	3241.7	none	-

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 3	brick veneer,frame:light steel frame	184.4	-	-
External wall type 4	off form concrete,frame:no frame	673.9	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
no	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	842.81	-	-

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)
-	3458.2	-	3458.2	-	-	-	-

(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)
41001	16.7	6.8	23.500
41002	5.3	5.4	10.700
41003	8.8	16.1	24.900
41004	21.5	13.2	34.700

	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)
41005	18.9	16.7	35.600
41006	17.4	7	24.400
41007	28	9.6	37.600
41008	13.9	7.8	21.700
4101	3.5	5.4	8.900
4102	5.8	13.8	19.600
4103	12	15.2	27.200
4104	7.7	20.5	28.200
4105	11.7	11.1	22.800
41101	14.7	8.6	23.300
41102	5	5.3	10.300
41103	9.1	15.3	24.400
41104	23.9	13.7	37.600
41105	18.5	12.6	31.100
41106	19.9	6.6	26.500
41108	12.9	10.6	23.500
41201	14.7	9.7	24.400
41202	5.1	5.4	10.500
41203	9.2	15.3	24.500
41204	18.3	12.3	30.600
41205	18.6	12.4	31.000
41206	20.1	6.7	26.800
41207	26.5	10.2	36.700
41208	13	10.2	23.200
41301	14.9	10.6	25.500
41303	9.3	15.3	24.600
41304	24.4	13.6	38.000
41305	19.30	12.6	31.900
41306	20.3	6.6	26.900
41307	26.6	10.2	36.800
41308	13.30	10.1	23.400

	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)
41401	14.8	10.7	25.500
41402	5.3	5.6	10.900
41403	9.4	15.6	25.000
41404	24.5	13.5	38.000
41405	19	12.7	31.700
41406	20.4	6.5	26.900
41408	13.4	10.2	23.600
41501	14.7	13.1	27.800
41503	9.5	15.8	25.300
41504	18	11.7	29.700
41505	19.1	12.8	31.900
41506	20.6	6.6	27.200
41507	26.3	10.1	36.400
41508	13.2	10	23.200
41601	14.6	13.9	28.500
41602	5.4	5.5	10.900
41603	9.5	16	25.500
41604	18.1	11.6	29.700
41605	19.2	12.9	32.100
41606	20.7	6.6	27.300
41607	27.9	10	37.900
41608	13.2	10.5	23.700
41701	14.5	18.3	32.800
41702	5.5	5.5	11.000
41703	9.6	16.2	25.800
41704	17.3	11.5	28.800
41705	19.3	12.8	32.100
41706	20.9	6.5	27.400
41707	26.3	10	36.300
41708	13.1	10.5	23.600
41801	14.8	13.5	28.300

	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)
41802	15	7	22.000
41803	18.7	18.6	37.300
41804	25	12.1	37.100
41805	20.5	12.7	33.200
41806	24.1	8	32.100
41807	27.2	9.7	36.900
41808	18.2	13.6	31.800
4201	4.3	5.2	9.500
4202	4.3	18.5	22.800
4203	11.4	19.7	31.100
4204	5	16.6	21.600
4205	14.5	8.5	23.000
4301	6.4	4.9	11.300
4303	15.5	13.9	29.400
4304	13.5	19.7	33.200
4305	18.3	7.9	26.200
4401	21.7	6.3	28.000
4402	3.7	6.1	9.800
4403	6.4	18.1	24.500
4404	16.5	13.6	30.100
4405	14.2	19.4	33.600
4406	15.1	7.6	22.700
4407	28.4	6.6	35.000
4501	13.1	6.9	20.000
4502	3.7	5.8	9.500
4504	17	13.7	30.700
4505	14.7	19.2	33.900
4506	13.90	7.5	21.400
4507	26.3	10.9	37.200
4508	16.1	8.4	24.500
4601	13.5	6.6	20.100

	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)
4602	3.9	5.7	9.600
4603	6.8	18.2	25.000
4604	17.6	13	30.600
4605	15.2	19.1	34.300
4606	14.3	7.4	21.700
4607	25	11.6	36.600
4608	11	8.3	19.300
4701	14	6.9	20.900
4702	4.1	5.7	9.800
4703	7	17.9	24.900
4704	18.1	13	31.100
4705	15.7	19.2	34.900
4706	14.7	7.2	21.900
4707	25.4	11	36.400
4708	11.4	8.3	19.700
4801	14.3	6.9	21.200
4802	4.2	5.6	9.800
4803	7.2	17.6	24.800
4804	18.5	13	31.500
4805	16.1	18.6	34.700
4806	15	7.2	22.200
4807	25.7	10.8	36.500
4808	11.6	8.1	19.700
4901	14.7	6.7	21.400
4902	4.3	5.5	9.800
4903	7.5	17.6	25.100
4904	19	13.3	32.300
4905	16.6	18.6	35.200
4906	15.5	7.2	22.700
4907	26	10.6	36.600
4908	12.1	8.4	20.500

	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)
41107, 41407	26.5	10	36.500
41302, 41502	5.3	5.5	10.800
All other dwellings	6.6	18.2	24.800

(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): 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:	295.1	-	none
floors above habitable rooms, frame: suspended concrete slab	11682.6	-	-
suspended floor above open subfloor, frame: suspended concrete slab	242.2	-	-
suspended floor above enclosed subfloor, frame: suspended concrete slab	45.6	-	-

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	5490.2	-	-
External wall type 2	framed (metal clad),frame:light steel frame	698.2	-	-
External wall type 3	brick veneer,frame:light steel frame	368	-	-
External wall type 4	off form concrete,frame:light steel frame	559.2	none	-

External wall types				
External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 5	off form concrete,frame:no frame	5731.7	none	-

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
no	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1066.3	-	-

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)
-	3764.7	-	3764.7	-	-	-	-

(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	14.7	14.3	29.000
5002	3	10.7	13.700
5003	3.4	7.1	10.500
5004	11.6	9.5	21.100

	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)
51001	23.8	7.3	31.100
51002	7.2	6.7	13.900
51003	1.3	5.2	6.500
51004	3.9	5	8.900
51005	4.3	5.1	9.400
51006	1.3	5	6.300
51007	5.1	5.8	10.900
51008	29.2	8.8	38.000
5101	2.1	5.4	7.500
51101	24.9	6.9	31.800
51102	8.4	6.1	14.500
51103	1.8	4.5	6.300
51104	4.4	4.7	9.100
51105	5	4.9	9.900
51106	1.6	4.3	5.900
51107	5.6	5.9	11.500
51108	23.9	6.8	30.700
51201	25.3	6.9	32.200
51202	8.7	6.1	14.800
51203	1.8	4.4	6.200
51204	4.6	4.6	9.200
51205	5.1	4.7	9.800
51206	1.7	4.3	6.000
51207	5.6	6	11.600
51208	24.2	6.8	31.000
51301	25.4	7.1	32.500
51302	8.7	6	14.700
51303	1.9	4.4	6.300
51304	4.7	4.6	9.300
51305	5.2	4.7	9.900
51306	1.7	4.2	5.900

	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)
51307	5.7	6.7	12.400
51308	24.2	7	31.200
51401	27.5	7.2	34.700
51402	8.9	6.1	15.000
51405	5.3	4.8	10.100
51407	5.7	7.4	13.100
51408	24.4	7.4	31.800
51501	29.2	8	37.200
51502	9	6.3	15.300
51505	5.4	4.8	10.200
51507	5.7	8.1	13.800
51508	24.2	7.4	31.600
51601	29.9	8.1	38.000
51602	9	6.6	15.600
51604	4.9	4.7	9.600
51605	5.5	4.7	10.200
51606	1.9	4.2	6.100
51607	5.6	8.4	14.000
51608	23.5	7.4	30.900
51701	26	7.6	33.600
51702	9.1	6.7	15.800
51703	2.1	4.4	6.500
51704	5	4.6	9.600
51705	5.6	4.8	10.400
51706	2	4.1	6.100
51707	5.2	8.6	13.800
51708	23	7.4	30.400
51801	26	7.9	33.900
51802	9.1	7.1	16.200
51803	2.1	4.3	6.400
51804	5.1	4.6	9.700

	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)
51805	5.7	4.7	10.400
51806	1.9	4.1	6.000
51807	4.8	9.2	14.000
51808	29.2	8.6	37.800
51901	27.8	7	34.800
51902	17.2	10.8	28.000
51903	7.8	6.6	14.400
51904	14.6	6.5	21.100
51905	15.9	6.7	22.600
51906	7.7	6.4	14.100
51907	10.6	11.3	21.900
51908	28.6	9.1	37.700
5201	3.4	8.1	11.500
5202	0.4	6.4	6.800
5203	1.4	6	7.400
5204	1.7	6.1	7.800
5205	0.3	6	6.300
5206	6.8	7.7	14.500
5301	5.6	7.4	13.000
5302	0.8	5.7	6.500
5303	2.6	5.4	8.000
5304	2.9	5.4	8.300
5305	0.7	5.2	5.900
5306	8.9	7.3	16.200
5401	31.6	5.8	37.400
5402	6.5	7.2	13.700
5403	0.9	5.5	6.400
5404	2.8	5.3	8.100
5405	3.2	5.5	8.700
5407	4.8	4.9	9.700
5408	31.3	5.5	36.800

	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)
5501	28.1	9.2	37.300
5502	6.1	7	13.100
5503	1	5.5	6.500
5504	3	5.3	8.300
5505	3.5	5.3	8.800
5507	4.1	5	9.100
5508	26.7	8.7	35.400
5601	28.7	8.9	37.600
5602	6.3	7	13.300
5603	1.1	5.3	6.400
5604	3.2	5.2	8.400
5605	3.7	5.3	9.000
5606	1	5.1	6.100
5607	4.4	5	9.400
5608	27.3	8.8	36.100
5701	22.6	7.2	29.800
5702	6.4	6.9	13.300
5703	1.1	5.2	6.300
5704	3.4	5.2	8.600
5705	3.8	5.2	9.000
5706	1	5	6.000
5707	4.5	5.2	9.700
5708	27.7	8.7	36.400
5801	23.1	7.3	30.400
5802	6.8	6.8	13.600
5804	3.5	5.1	8.600
5805	4	5.1	9.100
5806	1.1	4.9	6.000
5807	4.8	5.4	10.200
5808	28.4	8.8	37.200
5901	23.4	7.2	30.600

	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)
5902	7	7	14.000
5904	3.7	5	8.700
5905	4.1	5.1	9.200
5906	1.2	4.9	6.100
5907	4.9	5.6	10.500
5908	28.8	8.8	37.600
51404, 51504	4.8	4.7	9.500
51406, 51506	1.8	4.2	6.000
5406, 5506	0.9	5.3	6.200
5803, 5903	1.2	5.1	6.300
All other dwellings	2	4.4	6.400

(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:	554.14	-	none
garage floor, frame: concrete slab on ground	1929	-	-
garage floor, frame: suspended concrete slab	7024.12	-	-
suspended floor above enclosed subfloor, frame: suspended concrete slab	2411.03	-	-
suspended floor above open subfloor, frame: suspended concrete slab	3002	-	-

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)
-	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
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
Nat vent plant or service rooms	no mechanical ventilation	-	light-emitting diode	manual on / manual off	no
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
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).

BASIX™ Certificate

Building Sustainability Index

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

Multi Dwelling

Certificate number: 1771722M_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.planningportal.nsw.gov.au/definitions

This certificate is a revision of certificate number 1771722M_02 submitted to the consent authority or certifier on 30 January 2025 with application SSD-70283710.

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

Secretary

Date of issue: Thursday, 25 September 2025

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.



When submitting this BASIX certificate with a development application or complying development certificate application, it must be accompanied by NatHERS certificate HR-F7E3KY-01.

Project summary

Project name	1 Crescent Street Holroyd - Phase 3_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	398
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	✓ 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_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	398
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	37904
Roof area (m²)	2472.29
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-F7E3KY-01	
Climate zone	56	
Project score		
Water	✔ 41	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, 203 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	3	139.5	0	0	0
6005	3	114.4	0	0	0
61003	2	85	0	0	0
61007	1	57.3	0	0	0
61101	2	85	0	0	0
61105	2	87.3	0	0	0
61109	3	101	0	0	0
61203	2	85	0	0	0
61207	1	57.3	0	0	0
61301	2	85	0	0	0
61305	2	87.3	0	0	0
61309	3	101	0	0	0
61403	2	85	0	0	0
61407	1	57.3	0	0	0
61501	2	85	0	0	0
61505	2	87.3	0	0	0
61509	3	101	0	0	0
61603	2	85	0	0	0
61607	1	57.3	0	0	0
61701	2	85	0	0	0
61705	2	87.3	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	114.4	0	0	0
6006	3	139.4	0	0	0
61004	1	57.3	0	0	0
61008	2	85.1	0	0	0
61102	3	101	0	0	0
61106	2	87.3	0	0	0
61110	2	85	0	0	0
61204	1	57.3	0	0	0
61208	2	85.1	0	0	0
61302	3	101	0	0	0
61306	2	87.3	0	0	0
61310	2	85	0	0	0
61404	1	57.3	0	0	0
61408	2	85.1	0	0	0
61502	3	101	0	0	0
61506	2	87.3	0	0	0
61510	2	85	0	0	0
61604	1	57.3	0	0	0
61608	2	85.1	0	0	0
61702	3	101	0	0	0
61706	2	57.3	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)
6003	3	121.6	0	0	0
61001	2	85	0	0	0
61005	2	87.3	0	0	0
61009	3	101	0	0	0
61103	2	85	0	0	0
61107	1	57.3	0	0	0
61201	2	85	0	0	0
61205	2	87.3	0	0	0
61209	3	101	0	0	0
61303	2	85	0	0	0
61307	1	57.3	0	0	0
61401	2	85	0	0	0
61405	2	87.3	0	0	0
61409	3	101	0	0	0
61503	2	85	0	0	0
61507	1	57.3	0	0	0
61601	2	85	0	0	0
61605	2	87.3	0	0	0
61609	3	101	0	0	0
61703	2	57.3	0	0	0
61707	1	85.1	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)
6004	3	121.6	0	0	0
61002	3	101	0	0	0
61006	2	87.3	0	0	0
61010	2	85	0	0	0
61104	1	57.3	0	0	0
61108	2	85.1	0	0	0
61202	3	101	0	0	0
61206	2	87.3	0	0	0
61210	2	85	0	0	0
61304	1	57.3	0	0	0
61308	2	85.1	0	0	0
61402	3	101	0	0	0
61406	2	87.3	0	0	0
61410	2	85	0	0	0
61504	1	57.3	0	0	0
61508	2	85.1	0	0	0
61602	3	101	0	0	0
61606	2	87.3	0	0	0
61610	2	85	0	0	0
61704	1	87.3	0	0	0
61708	2	85	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)
61709	3	101	0	0	0
61803	2	85	0	0	0
61807	1	57.3	0	0	0
61901	2	85	0	0	0
61905	2	87.3	0	0	0
61909	3	101	0	0	0
62003	2	85	0	0	0
62007	1	57.3	0	0	0
62010	2	85	0	0	0
6205	1	57.3	0	0	0
62103	2	85	0	0	0
62107	1	57.3	0	0	0
62201	2	87.3	0	0	0
62205	2	85	0	0	0
6304	2	87.3	0	0	0
6402	3	101	0	0	0
6406	2	87.3	0	0	0
6410	2	84.9	0	0	0
6504	1	57.3	0	0	0
6508	2	85.1	0	0	0
6602	3	101	0	0	0
6606	2	87.3	0	0	0
6610	2	85	0	0	0
6704	1	57.3	0	0	0
6708	2	85.1	0	0	0
6802	3	101	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)
61710	2	85	0	0	0
61804	1	57.3	0	0	0
61808	2	85.1	0	0	0
61902	3	101	0	0	0
61906	2	87.3	0	0	0
61910	2	85	0	0	0
62004	1	57.3	0	0	0
62008	2	85.1	0	0	0
6202	1	57.3	0	0	0
6206	3	110	0	0	0
62104	1	57.3	0	0	0
62108	2	85.1	0	0	0
62202	1	57.3	0	0	0
6301	2	85	0	0	0
6305	1	57.3	0	0	0
6403	2	85	0	0	0
6407	1	57.3	0	0	0
6501	2	85	0	0	0
6505	2	87.3	0	0	0
6509	3	101	0	0	0
6603	2	85	0	0	0
6607	1	57.3	0	0	0
6701	2	85	0	0	0
6705	2	87.3	0	0	0
6709	3	101	0	0	0
6803	2	85	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)
61801	2	85	0	0	0
61805	2	87.3	0	0	0
61809	3	101	0	0	0
61903	2	85	0	0	0
61907	1	57.3	0	0	0
62001	2	85	0	0	0
62005	2	87.3	0	0	0
62009	3	101	0	0	0
6203	2	87.3	0	0	0
62101	2	85	0	0	0
62105	2	87.3	0	0	0
62109	3	101	0	0	0
62203	2	85.1	0	0	0
6302	1	57.3	0	0	0
6306	3	110	0	0	0
6404	1	57.3	0	0	0
6408	2	85.1	0	0	0
6502	3	101	0	0	0
6506	2	87.3	0	0	0
6510	2	85	0	0	0
6604	1	57.3	0	0	0
6608	2	85.1	0	0	0
6702	3	101	0	0	0
6706	2	87.3	0	0	0
6710	2	85	0	0	0
6804	1	57.3	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)
61802	3	101	0	0	0
61806	2	87.3	0	0	0
61810	2	85	0	0	0
61904	1	57.3	0	0	0
61908	2	85.1	0	0	0
62002	3	101	0	0	0
62006	2	87.3	0	0	0
6201	2	85	0	0	0
6204	2	87.3	0	0	0
62102	3	101	0	0	0
62106	2	87.3	0	0	0
62110	2	85	0	0	0
62204	3	101	0	0	0
6303	2	87.3	0	0	0
6401	2	78.3	0	0	0
6405	2	87.3	0	0	0
6409	3	101	0	0	0
6503	2	85	0	0	0
6507	1	57.3	0	0	0
6601	2	85	0	0	0
6605	2	87.3	0	0	0
6609	3	101	0	0	0
6703	2	85	0	0	0
6707	1	57.3	0	0	0
6801	2	85	0	0	0
6805	2	87.3	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)
6806	2	87.3	0	0	0
6810	2	85	0	0	0
6904	1	57.3	0	0	0
6908	2	85.1	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)
6807	1	57.3	0	0	0
6901	2	85	0	0	0
6905	2	87.3	0	0	0
6909	3	101	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)
6808	2	85.1	0	0	0
6902	3	101	0	0	0
6906	2	87.3	0	0	0
6910	2	85	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)
6809	3	101	0	0	0
6903	2	85	0	0	0
6907	1	57.3	0	0	0

Residential flat buildings - Building7, 195 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)
7001	2	75.6	0	0	0
7005	3	95.6	0	0	0
71004	2	75	0	0	0
71008	2	78.7	0	0	0
7103	2	75.6	0	0	0
71102	2	75.3	0	0	0
71106	1	49.5	0	0	0
71201	2	73.4	0	0	0
71205	1	49.5	0	0	0
71209	2	73.4	0	0	0
71304	2	75	0	0	0
71308	2	78.7	0	0	0
71403	2	75.6	0	0	0
71407	3	95.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
7002	2	75	0	0	0
71001	2	73.4	0	0	0
71005	1	49.5	0	0	0
71009	1	73.4	0	0	0
7104	2	75	0	0	0
71103	2	75.6	0	0	0
71107	3	95.6	0	0	0
71202	2	75.3	0	0	0
71206	1	49.5	0	0	0
71301	2	73.4	0	0	0
71305	1	49.5	0	0	0
71309	2	73.4	0	0	0
71404	2	75	0	0	0
71408	2	78.7	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)
7003	2	102.7	0	0	0
71002	2	75.3	0	0	0
71006	1	49.5	0	0	0
7101	2	73.4	0	0	0
7105	3	95.6	0	0	0
71104	2	75	0	0	0
71108	2	78.7	0	0	0
71203	2	75.6	0	0	0
71207	3	95.6	0	0	0
71302	2	75.3	0	0	0
71306	1	49.5	0	0	0
71401	2	73.4	0	0	0
71405	1	49.5	0	0	0
71409	2	73.4	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)
7004	2	102.7	0	0	0
71003	2	75.6	0	0	0
71007	3	95.6	0	0	0
7102	2	75.3	0	0	0
71101	2	73.4	0	0	0
71105	1	49.5	0	0	0
71109	2	73.4	0	0	0
71204	2	75	0	0	0
71208	2	78.7	0	0	0
71303	2	75.6	0	0	0
71307	3	95.6	0	0	0
71402	2	75.3	0	0	0
71406	1	49.5	0	0	0
71501	2	73.4	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)
71502	2	75.3	0	0	0
71506	1	49.5	0	0	0
71601	2	73.4	0	0	0
71605	1	49.5	0	0	0
71609	2	73.4	0	0	0
71704	2	75	0	0	0
71708	2	78.7	0	0	0
71803	2	75.6	0	0	0
71807	3	95.6	0	0	0
71902	2	75.3	0	0	0
71906	1	49.5	0	0	0
72001	2	73.4	0	0	0
72005	1	49.5	0	0	0
72009	2	73.4	0	0	0
7204	2	75	0	0	0
72101	2	73.4	0	0	0
72105	1	49.5	0	0	0
72109	2	73.4	0	0	0
72204	2	75	0	0	0
72208	2	78.7	0	0	0
7303	2	75.6	0	0	0
7307	3	95.6	0	0	0
7404	2	75	0	0	0
7408	2	78.7	0	0	0
7503	2	75.6	0	0	0
7507	3	95.6	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
71503	2	75.6	0	0	0
71507	3	95.6	0	0	0
71602	2	75.3	0	0	0
71606	1	49.5	0	0	0
71701	2	73.4	0	0	0
71705	1	49.5	0	0	0
71709	2	73.4	0	0	0
71804	2	75	0	0	0
71808	2	78.7	0	0	0
71903	2	75.6	0	0	0
71907	3	95.6	0	0	0
72002	2	75.3	0	0	0
72006	1	49.5	0	0	0
7201	2	73.4	0	0	0
7205	1	49.5	0	0	0
72102	2	75.3	0	0	0
72106	1	49.5	0	0	0
72201	2	73.4	0	0	0
72205	1	49.5	0	0	0
72209	2	73.4	0	0	0
7304	2	75	0	0	0
7401	2	73.4	0	0	0
7405	1	49.5	0	0	0
7409	1	57.5	0	0	0
7504	2	75	0	0	0
7508	2	78.7	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)
71504	2	75	0	0	0
71508	2	78.7	0	0	0
71603	2	75.6	0	0	0
71607	3	95.6	0	0	0
71702	2	75.3	0	0	0
71706	1	49.5	0	0	0
71801	2	73.4	0	0	0
71805	1	49.5	0	0	0
71809	2	73.4	0	0	0
71904	2	75	0	0	0
71908	2	78.7	0	0	0
72003	2	75.6	0	0	0
72007	3	95.6	0	0	0
7202	2	75.3	0	0	0
7206	1	49.5	0	0	0
72103	2	75.6	0	0	0
72107	3	95.6	0	0	0
72202	2	75.3	0	0	0
72206	1	49.5	0	0	0
7301	2	73.4	0	0	0
7305	1	49.5	0	0	0
7402	2	75.3	0	0	0
7406	1	49.5	0	0	0
7501	2	73.4	0	0	0
7505	1	49.5	0	0	0
7509	1	73.4	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)
71505	1	49.5	0	0	0
71509	2	73.4	0	0	0
71604	2	75	0	0	0
71608	2	78.7	0	0	0
71703	2	75.6	0	0	0
71707	3	95.6	0	0	0
71802	2	75.3	0	0	0
71806	1	49.5	0	0	0
71901	2	73.4	0	0	0
71905	1	49.5	0	0	0
71909	2	73.4	0	0	0
72004	2	75	0	0	0
72008	2	78.7	0	0	0
7203	2	75.6	0	0	0
7207	3	95.6	0	0	0
72104	2	75	0	0	0
72108	2	78.7	0	0	0
72203	2	75.6	0	0	0
72207	3	95.6	0	0	0
7302	2	75.3	0	0	0
7306	1	49.5	0	0	0
7403	2	75.6	0	0	0
7407	3	95.6	0	0	0
7502	2	75.3	0	0	0
7506	1	49.5	0	0	0
7601	2	73.4	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)
7602	2	75.3	0	0	0
7606	1	49.5	0	0	0
7701	2	73.4	0	0	0
7705	1	49.5	0	0	0
7709	1	73.4	0	0	0
7804	2	75	0	0	0
7808	2	78.7	0	0	0
7903	2	75.6	0	0	0
7907	3	95.6	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)
7603	2	75.6	0	0	0
7607	3	95.6	0	0	0
7702	2	75.3	0	0	0
7706	1	49.5	0	0	0
7801	2	73.4	0	0	0
7805	1	49.5	0	0	0
7809	1	73.4	0	0	0
7904	2	75	0	0	0
7908	2	78.7	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)
7604	2	75	0	0	0
7608	2	78.7	0	0	0
7703	2	75.6	0	0	0
7707	3	95.6	0	0	0
7802	2	75.3	0	0	0
7806	1	49.5	0	0	0
7901	2	73.4	0	0	0
7905	1	49.5	0	0	0
7909	1	73.4	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)
7605	1	49.5	0	0	0
7609	1	73.4	0	0	0
7704	2	75	0	0	0
7708	2	78.7	0	0	0
7803	2	75.6	0	0	0
7807	3	95.6	0	0	0
7902	2	75.3	0	0	0
7906	1	49.5	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)
Car park area	12713.26	Garbage rooms	521	Mec vent plant or service rooms	329
Communal area	171	Ground floor lobby	261.26	Hallway/lobby	2742.86

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:	441.6	-	none
suspended floor above open subfloor, frame: suspended concrete slab	391.1	-	-
floors above habitable rooms, frame: suspended concrete slab	16368.2	-	-

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	1562.8	-	-
External wall type 2	off form concrete, frame: light steel frame	9068.7	none	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 3	off form concrete,frame:no frame	8827.5	none	-

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	7442.6	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	6319.4	-

Reinforcement concrete frames/columns

Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
no	-	-

Ceiling and roof types

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1239.86	-	-

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)
-	5451.3	-	5451.3	-	-	-	-

(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	12.2	19.1	31.300
6002	0.7	17.7	18.400
6003	0.4	21	21.400
6004	0.4	18.5	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)
6005	1	19.1	20.100
6006	11.4	10.7	22.100
61001	31.2	6.2	37.400
61002	24.2	7.7	31.900
61003	15.4	18.6	34.000
61004	4.9	7.9	12.800
61005	8.7	8.2	16.900
61006	9.7	7.7	17.400
61007	4	8.7	12.700
61008	12.8	11.2	24.000
61009	26.3	6.1	32.400
61010	29	6.6	35.600
61102	30	6.1	36.100
61105	5.7	4.9	10.600
61106	6.2	5.5	11.700
61107	2.3	6	8.300
61108	8.8	7.6	16.400
61201	32.7	4.2	36.900
61202	30.1	6.1	36.200
61205	5.7	4.6	10.300
61206	6.1	5.2	11.300
61208	8.8	7.7	16.500
61209	26.4	4	30.400
61210	32.7	4.3	37.000
61302	30.2	6.1	36.300
61303	11.7	14.3	26.000
61305	5.8	4.6	10.400
61306	6.2	5	11.200
61308	8.8	8.3	17.100
61401	33.1	4.2	37.300
61402	30.6	6.1	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)
61403	11.8	14.4	26.200
61404	2.9	5	7.900
61405	6	4.4	10.400
61406	6.4	5.1	11.500
61408	8.9	8.7	17.600
61409	26.6	4.3	30.900
61410	33.1	4.3	37.400
61503	12	14.8	26.800
61504	3	5	8.000
61505	6	4.6	10.600
61506	6.5	5.1	11.600
61508	8.9	9.5	18.400
61509	26.5	4.5	31.000
61601	33.2	4.2	37.400
61603	12	14.7	26.700
61604	3	5.1	8.100
61605	5.9	4.5	10.400
61606	6.6	5	11.600
61607	2.6	5.9	8.500
61608	8.8	11.2	20.000
61609	26.1	4.7	30.800
61610	33.2	4.3	37.500
61701	30.4	5.7	36.100
61702	24.9	8	32.900
61703	16.6	17.6	34.200
61704	5.4	8	13.400
61705	10.2	7.4	17.600
61706	10.7	7.7	18.400
61707	4.6	8.7	13.300
61708	13.1	16.4	29.500
61709	25.5	7.2	32.700

	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)
61710	30.4	6.9	37.300
61801	31.3	4	35.300
61802	28.3	6.2	34.500
61803	12.5	13.6	26.100
61804	3.2	4.9	8.100
61805	6.5	4.3	10.800
61806	6.9	4.6	11.500
61808	8.8	13.2	22.000
61809	27.9	5.8	33.700
61901	31.3	3.9	35.200
61902	28.2	6.2	34.400
61903	12.4	13.6	26.000
61904	3.1	4.7	7.800
61905	6.4	4.4	10.800
61906	6.8	4.8	11.600
61908	8.4	14.1	22.500
61909	24.9	6.3	31.200
62001	31.4	4.3	35.700
62002	28.2	6.7	34.900
62003	12.5	14.1	26.600
62004	3.1	5.1	8.200
62005	8.1	5.2	13.300
62006	6.8	5.3	12.100
62007	2.7	6	8.700
62008	8.2	15.5	23.700
62009	23.7	6.9	30.600
6201	9.3	18.7	28.000
62010	31	4.4	35.400
6202	0.5	5.6	6.100
6203	2.1	5.4	7.500
6204	2.2	6.2	8.400

	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)
6205	0.5	7.2	7.700
6206	13.9	8.9	22.800
62101	32.3	4	36.300
62102	29.1	7.8	36.900
62103	18.8	14.2	33.000
62104	10.3	7.2	17.500
62105	17.6	7.2	24.800
62106	6.6	5.7	12.300
62107	2.8	6	8.800
62108	8.4	15.7	24.100
62109	23.6	6.8	30.400
62110	30.3	4.9	35.200
62201	15.4	9.4	24.800
62202	9	8.1	17.100
62203	16.9	17.3	34.200
62204	27.4	8	35.400
62205	32.8	4.9	37.700
6301	14.6	16.5	31.100
6302	1.1	5.4	6.500
6303	3.4	5.2	8.600
6304	3.7	5.6	9.300
6305	1	6.8	7.800
6306	14.1	7.8	21.900
6401	33.9	3.6	37.500
6402	28.6	5	33.600
6403	8.9	16.5	25.400
6404	1.2	5.3	6.500
6405	3.7	5.1	8.800
6406	3.9	5.7	9.600
6407	1.1	5.9	7.000
6408	5.8	8.6	14.400

	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)
6409	29.5	4.1	33.600
6410	32.5	2.9	35.400
6501	28.2	4.6	32.800
6502	31.6	6	37.600
6503	9.1	16.6	25.700
6504	1.4	5.4	6.800
6505	3.8	5	8.800
6506	4.1	5.8	9.900
6507	1.2	6.3	7.500
6508	6.4	8.9	15.300
6509	28.4	4.8	33.200
6510	28	4.4	32.400
6601	28.8	4.7	33.500
6602	25.7	6.2	31.900
6603	8.9	17.6	26.500
6604	1.5	5.3	6.800
6605	4	5.1	9.100
6606	4.4	5.7	10.100
6607	1.2	6.2	7.400
6608	6.6	8.6	15.200
6609	29.00	4.8	33.800
6610	28.8	4.5	33.300
6701	29.2	4.6	33.800
6702	26.1	6.1	32.200
6703	9.3	17.2	26.500
6704	1.6	5.2	6.800
6705	4.2	5.1	9.300
6706	4.5	5.6	10.100
6707	1.3	6.1	7.400
6708	6.7	8.5	15.200
6709	29.4	4.8	34.200

	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)
6710	29.1	4.6	33.700
6801	29.7	4.6	34.300
6802	27	6.2	33.200
6803	9.4	16.7	26.100
6804	1.8	5.2	7.000
6805	4.3	5.1	9.400
6806	4.7	5.5	10.200
6807	1.4	6.2	7.600
6808	7	8.4	15.400
6809	29.9	4.7	34.600
6810	29.7	4.5	34.200
6901	29.2	4.7	33.900
6902	26.9	6.3	33.200
6903	9.6	16.8	26.400
6904	1.9	5.2	7.100
6905	4.4	5.1	9.500
6906	4.9	5.5	10.400
6907	1.5	6.2	7.700
6908	7.2	8.6	15.800
6909	30.1	4.8	34.900
6910	29.8	4.5	34.300
61101, 61110	32.5	4.3	36.800
61103, 61203	11.6	14.4	26.000
61109, 61309	26.4	4.2	30.600
61204, 61304	2.8	5.1	7.900
61207, 61307	2.4	5.9	8.300
61301, 61310	32.8	4.3	37.100
61407, 61507	2.5	5.9	8.400
61501, 61510	33.3	4.2	37.500
61502, 61602	30.7	6.1	36.800
61810, 61910	31.1	3.8	34.900

	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)
All other dwellings	2.7	5.3	8.000

(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. 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	13444.7	-	-
suspended floor above open subfloor, frame: suspended concrete slab	292.8	-	-
concrete slab on ground, frame:	367.1	-	none

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	9411.8	-	-
External wall type 2	off form concrete,frame:light steel frame	36	none	-
External wall type 3	off form concrete,frame:no frame	946	none	-

Internal wall types			
Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	10192.8	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	6493.7	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
no	-	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1232.43	-	-

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)
-	4534.8	-	4534.8	-	-	-	-

(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	14.3	17.1	31.400
7002	11.2	11	22.200
7003	14.1	21	35.100
7004	11.3	20.5	31.800

	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)
7005	2.4	9.4	11.800
71001	17	16.9	33.900
71002	18.5	6.3	24.800
71003	19.6	9.6	29.200
71004	12.9	8.2	21.100
71005	23.7	13.2	36.900
71006	23.4	12.7	36.100
71007	5.1	8.4	13.500
71008	7.8	6	13.800
7101	17.8	11.8	29.600
7102	16.7	8.9	25.600
7103	11.6	20.6	32.200
7104	8.5	9.3	17.800
7105	2	10.8	12.800
71101	16.3	18.6	34.900
71102	18	8.8	26.800
71103	21.4	11.2	32.600
71104	12.6	9.8	22.400
71105	18.5	12.3	30.800
71106	18.5	12	30.500
71107	8.2	9.3	17.500
71108	10.2	8.2	18.400
71109	17.7	14.8	32.500
71201	19	16.7	35.700
71202	21.5	6.5	28.000
71203	23.6	12.1	35.700
71204	15.7	7.8	23.500
71205	19.7	11.3	31.000
71206	19.2	10.6	29.800
71207	6.3	8.6	14.900
71209	20.2	13.7	33.900

	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)
71301	18.9	16.3	35.200
71302	21.2	6.1	27.300
71303	24.3	12.1	36.400
71304	16	7.7	23.700
71305	20.6	10.2	30.800
71306	20.1	10.1	30.200
71307	7.3	8.6	15.900
71309	20	13.5	33.500
71401	16.5	16.8	33.300
71402	20	6.2	26.200
71403	23.6	10.1	33.700
71404	15.50	8.8	24.300
71405	20.2	10.9	31.100
71406	19.6	10.8	30.400
71407	7.4	8	15.400
71409	19.3	13.8	33.100
71501	13.6	16.1	29.700
71503	25.5	9.2	34.700
71504	16.5	8.6	25.100
71505	21	10.2	31.200
71506	20.5	10	30.500
71508	9.7	6.2	15.900
71509	19.6	13.9	33.500
71601	11.2	16.3	27.500
71602	19.9	6.2	26.100
71603	18.8	13.4	32.200
71604	16.2	7.5	23.700
71605	20.60	10.7	31.300
71606	20	10.4	30.400
71607	6.3	8.7	15.000
71608	9.6	6.2	15.800

	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)
71609	18	13.9	31.900
71701	10.3	15.9	26.200
71702	20.6	5.9	26.500
71703	25.1	11.8	36.900
71704	16.8	8	24.800
71706	20.9	9.9	30.800
71707	7.7	8	15.700
71708	9.5	6	15.500
71709	20.8	17.1	37.900
71801	9.8	16.7	26.500
71802	20.2	6.1	26.300
71803	24.4	9.6	34.000
71804	16.3	8.5	24.800
71805	20.9	10.7	31.600
71806	20.4	10.5	30.900
71809	14	16.9	30.900
71901	9.2	16.1	25.300
71902	20.9	5.9	26.800
71903	26.1	9.3	35.400
71904	17.1	8.2	25.300
71905	21.6	9.9	31.500
71906	21.1	10	31.100
71907	8.4	7.6	16.000
71908	9.10	6.1	15.200
71909	11.3	16.6	27.900
72001	8.8	16.6	25.400
72003	19.3	13.1	32.400
72004	16.8	7.9	24.700
72005	21.20	10.7	31.900
72006	20.6	10.6	31.200
72007	6.7	8.6	15.300

	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)
72008	8.8	5.9	14.700
72009	8.9	17.7	26.600
7201	10.00	18.7	28.700
7202	8.6	10.1	18.700
7203	10.9	13.3	24.200
7204	6.4	13.2	19.600
7205	9.7	17.9	27.600
7206	12.7	13.7	26.400
7207	1.9	10.8	12.700
72101	9.1	16.2	25.300
72102	21	6	27.000
72103	25.8	11.6	37.400
72104	17	7.9	24.900
72105	21.7	9.9	31.600
72107	7.8	8	15.800
72108	7.6	6.3	13.900
72109	8.8	17.4	26.200
72201	14.5	17.8	32.300
72202	26.8	8.9	35.700
72203	26.3	10	36.300
72204	21.2	9.2	30.400
72205	24.8	12.5	37.300
72206	25.1	12	37.100
72207	17	9	26.000
72208	14	8.3	22.300
72209	15.4	18.5	33.900
7301	5.4	19.2	24.600
7302	9.3	9.5	18.800
7303	12.2	12.2	24.400
7304	7.1	12.3	19.400
7305	14.4	20	34.400

	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)
7306	14.2	13.8	28.000
7307	2.4	10	12.400
7401	13.8	19.1	32.900
7402	14.7	7.4	22.100
7403	14.7	15	29.700
7404	9.4	6.9	16.300
7405	18.2	13.9	32.100
7406	19.2	12.2	31.400
7407	3.3	8.5	11.800
7408	13	5.5	18.500
7409	29.6	7.4	37.000
7501	14.5	18.3	32.800
7502	15.9	6.7	22.600
7504	10.4	7.4	17.800
7505	19.7	13.6	33.300
7506	19.8	12.5	32.300
7507	4.2	8.5	12.700
7508	5.9	6.7	12.600
7509	20.10	13.8	33.900
7601	14.6	18.3	32.900
7602	15.8	7.3	23.100
7603	16.3	10.1	26.400
7604	10.4	8.2	18.600
7605	17.1	13.5	30.600
7606	18.8	13	31.800
7607	3.8	8.8	12.600
7608	6.1	6.5	12.600
7609	19.1	17.5	36.600
7701	15.7	17.7	33.400
7702	16.8	6.7	23.500
7703	17.5	10.2	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)
7704	11.5	9	20.500
7705	20.9	13.3	34.200
7706	20.6	11.9	32.500
7707	4.8	8.4	13.200
7708	6.3	6.7	13.000
7709	20	16.8	36.800
7801	15.3	18.2	33.500
7802	16.4	7.2	23.600
7803	16.6	13.7	30.300
7804	10.90	7.4	18.300
7805	20.6	12.8	33.400
7806	20.30	12.3	32.600
7807	4.5	8.4	12.900
7808	6.5	6.6	13.100
7809	19.8	17.3	37.100
7901	15.80	17.4	33.200
7902	17.4	6.7	24.100
7903	17.9	13.5	31.400
7904	11.9	7.4	19.300
7905	21.90	13.4	35.300
7906	21.6	11.8	33.400
7907	4.90	8.8	13.700
7908	6.7	6.7	13.400
7909	20.7	16.9	37.600
71009, 7503	16.1	14.3	30.400
71208, 71408	9.5	6.1	15.600
71308, 71808	9.5	6.2	15.700
71502, 72002	20.4	6.1	26.500
71507, 71807	8	7.7	15.700
All other dwellings	21.3	10	31.300

(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:	957.25	-	none
garage floor, frame: concrete slab on ground	2783.07	-	-
garage floor, frame: suspended concrete slab	9930.2	-	-
suspended floor above enclosed subfloor, frame: suspended concrete slab	3067.78	-	-
suspended floor above open subfloor, frame: suspended concrete slab	5074	-	-

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	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
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
Communal area	ventilation supply only	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	no
Ground floor lobby	ventilation supply only	time clock or BMS controlled	light-emitting diode	daylight sensors	no
Hallway/lobby	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).