

BASIX[®]Certificate

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

Multi Dwelling

Certificate number: 1294963M

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

Secretary

Date of issue: Thursday, 31 March 2022

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



Planning,
Industry &
Environment

Project summary

Project name	12 Hassall Street Parramatta
Street address	12 Hassall St Street Parramatta 2150
Local Government Area	Parramatta City Council
Plan type and plan number	deposited 1240854
Lot no.	156
Section no.	-
No. of residential flat buildings	1
No. of units in residential flat buildings	391
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Project score

Water	✓ 51	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 35	Target 25

Certificate Prepared by

Name / Company Name: ADP Consulting

ABN (if applicable): 139719529

Description of project

Project address

Project name	12 Hassall Street Parramatta
Street address	12 Hassall St Street Parramatta 2150
Local Government Area	Parramatta City Council
Plan type and plan number	deposited 1240854
Lot no.	156
Section no.	-

Project type

No. of residential flat buildings	1
No. of units in residential flat buildings	391
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Site details

Site area (m ²)	2055
Roof area (m ²)	132.5
Non-residential floor area (m ²)	3778.0
Residential car spaces	163
Non-residential car spaces	11




Common area landscape

Common area lawn (m ²)	0.0
Common area garden (m ²)	610.0
Area of indigenous or low water use species (m ²)	298.0

Assessor details

Assessor number	DMN/19/1900
Certificate number	NS96E9NFHZ
Climate zone	56
Ceiling fan in at least one bedroom	No
Ceiling fan in at least one living room or other conditioned area	No

Project score

Water	 51	Target 40
Thermal Comfort	 Pass	Target Pass
Energy	 35	Target 25

Description of project

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

Residential flat buildings - 12 Hassall Street, 391 dwellings, 61 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)
501	2	84.5	5.5	0.0	0.0
506	2	72.44	3.56	0.0	0.0
605	2	72.44	3.56	0.0	0.0
704	2	83.5	5.5	0.0	0.0
803	1	50.8	3.2	0.0	0.0
902	1	33.64	6.36	0.0	0.0
907	1	52.1	3.9	0.0	0.0
1002	1	33.64	6.36	0.0	0.0
1007	1	52.1	3.9	0.0	0.0
1102	1	33.64	6.36	0.0	0.0
1107	1	52.1	3.9	0.0	0.0
1202	1	33.64	6.36	0.0	0.0
1207	1	52.1	3.9	0.0	0.0
1302	1	33.64	6.36	0.0	0.0
1307	1	52.1	3.9	0.0	0.0
1402	1	33.64	6.36	0.0	0.0
1407	1	52.1	3.9	0.0	0.0
1502	1	52.4	1.6	0.0	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)
502	1	50.8	3.2	0.0	0.0
601	2	84.5	5.5	0.0	0.0
606	2	72.44	3.56	0.0	0.0
705	2	72.44	3.56	0.0	0.0
804	2	83.5	5.5	0.0	0.0
903	1	33.64	6.36	0.0	0.0
908	1	52.0	4.0	0.0	0.0
1003	1	33.64	6.36	0.0	0.0
1008	1	52.0	4.0	0.0	0.0
1103	1	33.64	6.36	0.0	0.0
1108	1	52.0	4.0	0.0	0.0
1203	1	33.64	6.36	0.0	0.0
1208	1	52.0	4.0	0.0	0.0
1303	1	33.64	6.36	0.0	0.0
1308	1	52.0	4.0	0.0	0.0
1403	1	33.64	6.36	0.0	0.0
1408	1	52.0	4.0	0.0	0.0
1503	1	50.8	3.2	0.0	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)
503	1	50.8	3.2	0.0	0.0
602	1	50.8	3.2	0.0	0.0
701	2	84.5	5.5	0.0	0.0
706	2	72.44	3.56	0.0	0.0
805	2	72.44	3.56	0.0	0.0
904	1	33.91	4.09	0.0	0.0
909	1	30.3	4.7	0.0	0.0
1004	1	33.91	4.09	0.0	0.0
1009	1	30.3	4.7	0.0	0.0
1104	1	33.91	4.09	0.0	0.0
1109	1	30.3	4.7	0.0	0.0
1204	1	33.91	4.09	0.0	0.0
1209	1	30.3	4.7	0.0	0.0
1304	1	33.91	4.09	0.0	0.0
1309	1	30.3	4.7	0.0	0.0
1404	1	33.91	4.09	0.0	0.0
1409	1	30.3	4.7	0.0	0.0
1504	2	67.78	7.22	0.0	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)
504	2	84.5	5.5	0.0	0.0
603	1	50.8	3.2	0.0	0.0
702	1	50.8	3.2	0.0	0.0
801	2	84.5	5.5	0.0	0.0
806	2	72.44	3.56	0.0	0.0
905	1	37.36	5.64	0.0	0.0
910	1	37.36	5.64	0.0	0.0
1005	1	37.36	5.64	0.0	0.0
1010	1	37.36	5.64	0.0	0.0
1105	1	37.36	5.64	0.0	0.0
1110	1	37.36	5.64	0.0	0.0
1205	1	37.36	5.64	0.0	0.0
1210	1	37.36	5.64	0.0	0.0
1305	1	37.36	5.64	0.0	0.0
1310	1	37.36	5.64	0.0	0.0
1405	1	37.36	5.64	0.0	0.0
1410	1	37.36	5.64	0.0	0.0
1505	1	30.5	4.5	0.0	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)
505	2	72.44	3.56	0.0	0.0
604	2	83.5	5.5	0.0	0.0
703	1	50.8	3.2	0.0	0.0
802	1	50.8	3.2	0.0	0.0
901	1	33.91	4.09	0.0	0.0
906	1	30.5	4.5	0.0	0.0
1001	1	33.91	4.09	0.0	0.0
1006	1	30.5	4.5	0.0	0.0
1101	1	33.91	4.09	0.0	0.0
1106	1	30.5	4.5	0.0	0.0
1201	1	33.91	4.09	0.0	0.0
1206	1	30.5	4.5	0.0	0.0
1301	1	33.91	4.09	0.0	0.0
1306	1	30.5	4.5	0.0	0.0
1401	1	33.91	4.09	0.0	0.0
1406	1	30.5	4.5	0.0	0.0
1501	2	67.78	7.22	0.0	0.0
1506	1	61.41	5.59	0.0	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)
1507	1	61.41	5.59	0.0	0.0
1604	2	67.78	7.22	0.0	0.0
1701	2	67.78	7.22	0.0	0.0
1706	1	61.41	5.59	0.0	0.0
1803	1	50.8	3.2	0.0	0.0
1808	1	30.3	4.7	0.0	0.0
1905	1	30.5	4.5	0.0	0.0
2002	1	52.4	1.6	0.0	0.0
2007	1	61.41	5.59	0.0	0.0
2104	2	67.78	7.22	0.0	0.0
2201	2	67.78	7.22	0.0	0.0
2206	1	61.41	5.59	0.0	0.0
2303	1	50.8	3.2	0.0	0.0
2308	1	30.3	4.7	0.0	0.0
2405	1	30.5	4.5	0.0	0.0
2502	1	52.4	1.6	0.0	0.0
2507	1	61.41	5.59	0.0	0.0
2604	2	67.78	7.22	0.0	0.0
2701	2	67.78	7.22	0.0	0.0
2706	1	61.41	5.59	0.0	0.0
2803	1	50.8	3.2	0.0	0.0
2902	1	52.4	1.6	0.0	0.0
2907	1	61.41	5.59	0.0	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)
1508	1	30.3	4.7	0.0	0.0
1605	1	30.5	4.5	0.0	0.0
1702	1	52.4	1.6	0.0	0.0
1707	1	61.41	5.59	0.0	0.0
1804	2	67.78	7.22	0.0	0.0
1901	2	67.78	7.22	0.0	0.0
1906	1	61.41	5.59	0.0	0.0
2003	1	50.8	3.2	0.0	0.0
2008	1	30.3	4.7	0.0	0.0
2105	1	30.5	4.5	0.0	0.0
2202	1	52.4	1.6	0.0	0.0
2207	1	61.41	5.59	0.0	0.0
2304	2	67.78	7.22	0.0	0.0
2401	2	67.78	7.22	0.0	0.0
2406	1	61.41	5.59	0.0	0.0
2503	1	50.8	3.2	0.0	0.0
2508	1	30.3	4.7	0.0	0.0
2605	1	30.5	4.5	0.0	0.0
2702	1	52.4	1.6	0.0	0.0
2707	1	61.41	5.59	0.0	0.0
2804	2	67.78	7.22	0.0	0.0
2903	1	50.8	3.2	0.0	0.0
2908	1	30.3	4.7	0.0	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)
1601	2	67.78	7.22	0.0	0.0
1606	1	61.41	5.59	0.0	0.0
1703	1	50.8	3.2	0.0	0.0
1708	1	30.3	4.7	0.0	0.0
1805	1	30.5	4.5	0.0	0.0
1902	1	52.4	1.6	0.0	0.0
1907	1	61.41	5.59	0.0	0.0
2004	2	67.78	7.22	0.0	0.0
2101	2	67.78	7.22	0.0	0.0
2106	1	61.41	5.59	0.0	0.0
2203	1	50.8	3.2	0.0	0.0
2208	1	30.3	4.7	0.0	0.0
2305	1	30.5	4.5	0.0	0.0
2402	1	52.4	1.6	0.0	0.0
2407	1	61.41	5.59	0.0	0.0
2504	2	67.78	7.22	0.0	0.0
2601	2	67.78	7.22	0.0	0.0
2606	1	61.41	5.59	0.0	0.0
2703	1	50.8	3.2	0.0	0.0
2708	1	28.4	4.7	0.0	0.0
2805	1	30.5	4.5	0.0	0.0
2904	2	67.78	7.22	0.0	0.0
3001	2	67.78	7.22	0.0	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)
1602	1	52.4	1.6	0.0	0.0
1607	1	61.41	5.59	0.0	0.0
1704	2	67.78	7.22	0.0	0.0
1801	2	67.78	7.22	0.0	0.0
1806	1	61.41	5.59	0.0	0.0
1903	1	50.8	3.2	0.0	0.0
1908	1	30.3	4.7	0.0	0.0
2005	1	30.5	4.5	0.0	0.0
2102	1	52.4	1.6	0.0	0.0
2107	1	61.41	5.59	0.0	0.0
2204	2	67.78	7.22	0.0	0.0
2301	2	67.78	7.22	0.0	0.0
2306	1	61.41	5.59	0.0	0.0
2403	1	50.8	3.2	0.0	0.0
2408	1	30.3	4.7	0.0	0.0
2505	1	30.5	4.5	0.0	0.0
2602	1	52.4	1.6	0.0	0.0
2607	1	61.41	5.59	0.0	0.0
2704	2	67.78	7.22	0.0	0.0
2801	2	67.78	7.22	0.0	0.0
2806	1	28.4	4.7	0.0	0.0
2905	1	30.5	4.5	0.0	0.0
3002	1	52.4	1.6	0.0	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)
1603	1	50.8	3.2	0.0	0.0
1608	1	30.3	4.7	0.0	0.0
1705	1	30.5	4.5	0.0	0.0
1802	1	52.4	1.6	0.0	0.0
1807	1	61.41	5.59	0.0	0.0
1904	2	67.78	7.22	0.0	0.0
2001	2	67.78	7.22	0.0	0.0
2006	1	61.41	5.59	0.0	0.0
2103	1	50.8	3.2	0.0	0.0
2108	1	30.3	4.7	0.0	0.0
2205	1	30.5	4.5	0.0	0.0
2302	1	52.4	1.6	0.0	0.0
2307	1	61.41	5.59	0.0	0.0
2404	2	67.78	7.22	0.0	0.0
2501	2	67.78	7.22	0.0	0.0
2506	1	61.41	5.59	0.0	0.0
2603	1	50.8	3.2	0.0	0.0
2608	1	30.3	4.7	0.0	0.0
2705	1	30.5	4.5	0.0	0.0
2802	1	52.4	1.6	0.0	0.0
2901	2	67.78	7.22	0.0	0.0
2906	1	61.41	5.59	0.0	0.0
3003	1	50.8	3.2	0.0	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)
3004	2	67.78	7.22	0.0	0.0
3101	2	67.78	7.22	0.0	0.0
3106	1	61.41	5.59	0.0	0.0
3203	1	50.8	3.2	0.0	0.0
3208	1	30.3	4.7	0.0	0.0
3305	1	30.5	4.5	0.0	0.0
3402	1	52.4	1.6	0.0	0.0
3407	1	61.41	5.59	0.0	0.0
3504	2	67.78	7.22	0.0	0.0
3601	2	67.78	7.22	0.0	0.0
3606	1	61.41	5.59	0.0	0.0
3703	1	50.8	3.2	0.0	0.0
3708	1	30.3	4.7	0.0	0.0
3805	1	30.5	4.5	0.0	0.0
3902	2	71.7	3.3	0.0	0.0
4001	2	74.6	4.4	0.0	0.0
4006	2	71.1	5.9	0.0	0.0
4105	2	71.1	5.9	0.0	0.0
4204	2	74.6	4.4	0.0	0.0
4303	2	71.7	3.3	0.0	0.0
4402	2	71.7	3.3	0.0	0.0
4501	2	74.6	4.4	0.0	0.0
4506	2	71.1	5.9	0.0	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)
3005	1	30.5	4.5	0.0	0.0
3102	1	52.4	1.6	0.0	0.0
3107	1	61.41	5.59	0.0	0.0
3204	2	67.78	7.22	0.0	0.0
3301	2	67.78	7.22	0.0	0.0
3306	1	61.41	5.59	0.0	0.0
3403	1	50.8	3.2	0.0	0.0
3408	1	30.3	4.7	0.0	0.0
3505	1	30.5	4.5	0.0	0.0
3602	1	52.4	1.6	0.0	0.0
3607	1	61.41	5.59	0.0	0.0
3704	2	67.78	7.22	0.0	0.0
3801	2	67.78	7.22	0.0	0.0
3806	1	61.41	5.59	0.0	0.0
3903	2	71.7	3.3	0.0	0.0
4002	2	71.7	3.3	0.0	0.0
4101	2	74.6	4.4	0.0	0.0
4106	2	71.1	5.9	0.0	0.0
4205	2	71.1	5.9	0.0	0.0
4304	2	74.6	4.4	0.0	0.0
4403	2	71.7	3.3	0.0	0.0
4502	2	71.7	3.3	0.0	0.0
4601	2	74.6	4.4	0.0	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)
3006	1	61.41	5.59	0.0	0.0
3103	1	50.8	3.2	0.0	0.0
3108	1	30.3	4.7	0.0	0.0
3205	1	30.5	4.5	0.0	0.0
3302	1	52.4	1.6	0.0	0.0
3307	1	61.41	5.59	0.0	0.0
3404	2	67.78	7.22	0.0	0.0
3501	2	67.78	7.22	0.0	0.0
3506	1	61.41	5.59	0.0	0.0
3603	1	50.8	3.2	0.0	0.0
3608	1	30.3	4.7	0.0	0.0
3705	1	30.5	4.5	0.0	0.0
3802	1	52.4	1.6	0.0	0.0
3807	1	61.41	5.59	0.0	0.0
3904	2	74.6	4.4	0.0	0.0
4003	2	71.7	3.3	0.0	0.0
4102	2	71.7	3.3	0.0	0.0
4201	2	74.6	4.4	0.0	0.0
4206	2	71.1	5.9	0.0	0.0
4305	2	71.1	5.9	0.0	0.0
4404	2	74.6	4.4	0.0	0.0
4503	2	71.7	3.3	0.0	0.0
4602	2	71.7	3.3	0.0	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)
3007	1	61.41	5.59	0.0	0.0
3104	2	67.78	7.22	0.0	0.0
3201	2	67.78	7.22	0.0	0.0
3206	1	61.41	5.59	0.0	0.0
3303	1	50.8	3.2	0.0	0.0
3308	1	30.3	4.7	0.0	0.0
3405	1	30.5	4.5	0.0	0.0
3502	1	52.4	1.6	0.0	0.0
3507	1	61.41	5.59	0.0	0.0
3604	2	67.78	7.22	0.0	0.0
3701	2	67.78	7.22	0.0	0.0
3706	1	61.41	5.59	0.0	0.0
3803	1	50.8	3.2	0.0	0.0
3808	1	30.3	4.7	0.0	0.0
3905	2	71.1	5.9	0.0	0.0
4004	2	74.6	4.4	0.0	0.0
4103	2	71.7	3.3	0.0	0.0
4202	2	71.7	3.3	0.0	0.0
4301	2	74.6	4.4	0.0	0.0
4306	2	71.1	5.9	0.0	0.0
4405	2	71.1	5.9	0.0	0.0
4504	2	74.6	4.4	0.0	0.0
4603	2	71.7	3.3	0.0	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)
3008	1	30.3	4.7	0.0	0.0
3105	1	30.5	4.5	0.0	0.0
3202	1	52.4	1.6	0.0	0.0
3207	1	61.41	5.59	0.0	0.0
3304	2	67.78	7.22	0.0	0.0
3401	2	67.78	7.22	0.0	0.0
3406	1	61.41	5.59	0.0	0.0
3503	1	50.8	3.2	0.0	0.0
3508	1	30.3	4.7	0.0	0.0
3605	1	30.5	4.5	0.0	0.0
3702	1	52.4	1.6	0.0	0.0
3707	1	61.41	5.59	0.0	0.0
3804	2	67.78	7.22	0.0	0.0
3901	2	74.6	4.4	0.0	0.0
3906	2	71.1	5.9	0.0	0.0
4005	2	71.1	5.9	0.0	0.0
4104	2	74.6	4.4	0.0	0.0
4203	2	71.7	3.3	0.0	0.0
4302	2	71.7	3.3	0.0	0.0
4401	2	74.6	4.4	0.0	0.0
4406	2	71.1	5.9	0.0	0.0
4505	2	71.1	5.9	0.0	0.0
4604	2	74.6	4.4	0.0	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)
4605	2	71.1	5.9	0.0	0.0
4704	2	74.6	4.4	0.0	0.0
4803	2	71.7	3.3	0.0	0.0
4902	2	71.7	3.3	0.0	0.0
5001	2	74.6	4.4	0.0	0.0
5006	2	71.1	5.9	0.0	0.0
5105	2	71.1	5.9	0.0	0.0
5204	2	67.78	7.22	0.0	0.0
5304	2	76.83	6.17	0.0	0.0
5404	2	76.83	6.17	0.0	0.0
5504	2	76.83	6.17	0.0	0.0
5604	2	76.83	6.17	0.0	0.0
5704	2	76.83	6.17	0.0	0.0
5804	2	76.83	6.17	0.0	0.0
5905	2	76.83	6.17	0.0	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)
4606	2	71.1	5.9	0.0	0.0
4705	2	71.1	5.9	0.0	0.0
4804	2	74.6	4.4	0.0	0.0
4903	2	71.7	3.3	0.0	0.0
5002	2	71.7	3.3	0.0	0.0
5101	2	74.6	4.4	0.0	0.0
5106	2	71.1	5.9	0.0	0.0
5205	1	30.5	4.5	0.0	0.0
5305	2	76.83	6.17	0.0	0.0
5405	2	76.83	6.17	0.0	0.0
5505	2	76.83	6.17	0.0	0.0
5605	2	76.83	6.17	0.0	0.0
5705	2	76.83	6.17	0.0	0.0
5805	2	76.83	6.17	0.0	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)
4701	2	74.6	4.4	0.0	0.0
4706	2	71.1	5.9	0.0	0.0
4805	2	71.1	5.9	0.0	0.0
4904	2	74.6	4.4	0.0	0.0
5003	2	71.7	3.3	0.0	0.0
5102	2	71.7	3.3	0.0	0.0
5201	2	67.78	7.22	0.0	0.0
5301	3	94.66	4.34	0.0	0.0
5401	3	94.66	4.34	0.0	0.0
5501	3	94.66	4.34	0.0	0.0
5601	3	94.66	4.34	0.0	0.0
5701	3	94.66	4.34	0.0	0.0
5801	3	94.66	4.34	0.0	0.0
5901	3	94.66	4.34	0.0	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)
4702	2	71.7	3.3	0.0	0.0
4801	2	74.6	4.4	0.0	0.0
4806	2	71.1	5.9	0.0	0.0
4905	2	71.1	5.9	0.0	0.0
5004	2	74.6	4.4	0.0	0.0
5103	2	71.7	3.3	0.0	0.0
5202	1	50.8	3.2	0.0	0.0
5302	3	103.3	2.7	0.0	0.0
5402	3	103.3	2.7	0.0	0.0
5502	3	103.3	2.7	0.0	0.0
5602	3	103.3	2.7	0.0	0.0
5702	3	103.3	2.7	0.0	0.0
5802	3	103.3	2.7	0.0	0.0
5903	3	94.66	4.34	0.0	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)
4703	2	71.7	3.3	0.0	0.0
4802	2	71.7	3.3	0.0	0.0
4901	2	74.6	4.4	0.0	0.0
4906	2	71.1	5.9	0.0	0.0
5005	2	71.1	5.9	0.0	0.0
5104	2	74.6	4.4	0.0	0.0
5203	1	50.8	3.2	0.0	0.0
5303	3	94.66	4.34	0.0	0.0
5403	3	94.66	4.34	0.0	0.0
5503	3	94.66	4.34	0.0	0.0
5603	3	94.66	4.34	0.0	0.0
5703	3	94.66	4.34	0.0	0.0
5803	3	94.66	4.34	0.0	0.0
5904	2	76.83	6.17	0.0	0.0

Description of project

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

Common areas of unit building - 12 Hassall Street

Common area	Floor area (m²)
Basement Level 5	1771.0
Basement Level 2	1771.0
Lift car (No.2)	-
Lift car (No.5)	-
Chute Discharge Room	44.0
DAS/MDF	46.0
Pumpset Room	36.0
Aquatic Plant	42.0
End of Trip	152.0
Level 60 Acc WC	6.6
Level 5-8 Hallway	196.0
Level 28 Hallway	49.0
Level 52 Hallway	49.0

Common area	Floor area (m²)
Basement Level 4	1771.0
Basement Level 1	743.0
Lift car (No.3)	-
Residential Waste	92.0
Amenities Level 4	345.0
Electrical Switch Room	40.0
Switchgear Room	47.0
Store	54.0
Concierge BOH	28.0
Residential Lobby	108.0
Level 9-14 Hallway	339.0
Level 29-38 Hallway	490.0
Level 53-58 Hallway	294.0

Common area	Floor area (m²)
Basement Level 3	1771.0
Lift car (No.1)	-
Lift car (No.4)	-
Bulky Waste Store	49.0
Grease Arrestor Room	17.0
MER	30.0
Level 59 Plant	105.0
Manager Room	22.0
Level 60 Store	6.6
Basement Level 1 Lobby	50.0
Level 15-27 Hallway	630.5
Level 39-51 Hallway	637.0
Level 59 Hallway	49.0

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - 12 Hassall Street

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

2. Commitments for multi-dwelling houses

3. Commitments for single dwelling houses

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

- (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 - 12 Hassall Street

(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.	✓	✓	✓

	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 (> 4.5 but <= 6 L/min)	4 star	5 star	5 star	no	4 star	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
None	-	-	-	-	-	-	-	-

(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.		✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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".		✓	

	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 1	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
501, 504, 601, 604, 701, 704, 801, 804, 5302, 5402, 5502, 5602, 5702, 5802	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
5301, 5303, 5401, 5403, 5501, 5503, 5601, 5603, 5701, 5703, 5801, 5803, 5901, 5903	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	4 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
2906, 2907, 3006, 3007, 3106, 3107, 3206, 3207, 3306, 3307, 3406, 3407, 3506, 3507, 3606, 3607, 3706, 3707, 3806, 3807, 3902, 3903, 4002, 4003, 4102, 4103, 4202, 4203, 4302, 4303, 4402, 4403, 4502, 4503, 4602, 4603, 4702, 4703, 4802,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
4803, 4902, 4903, 5002, 5003, 5102, 5103												

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
902, 903, 907, 908, 1002, 1003, 1007, 1008, 1102, 1103, 1107, 1108, 1202, 1203, 1207, 1208, 1302, 1303, 1307, 1308, 1402, 1403, 1407, 1408, 1506, 1507, 1606, 1607, 1706, 1707, 1806, 1807, 1906, 1907, 2006, 2007, 2106, 2107, 2206,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes

	Cooling		Heating		Artificial lighting						Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
2207, 2306, 2307, 2406, 2407, 2506, 2507, 2606, 2607, 2706, 2707												

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
1501, 1504, 1601, 1604, 1701, 1704, 1801, 1804, 1901, 1904, 2001, 2004, 2101, 2104, 2201, 2204, 2301, 2304, 2401, 2404, 2501, 2504, 2601, 2604, 2701, 2704, 2801, 2804, 2901, 2904, 3001, 3004, 3101, 3104, 3201, 3204, 3301, 3304, 3401,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no

	Cooling		Heating		Artificial lighting						Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
3404, 3501, 3504, 3601, 3604, 3701, 3704, 3801, 3804, 5201, 5204												

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
505, 506, 605, 606, 705, 706, 805, 806, 3901, 3904, 3905, 3906, 4001, 4004, 4005, 4006, 4101, 4104, 4105, 4106, 4201, 4204, 4205, 4206, 4301, 4304, 4305, 4306, 4401, 4404, 4405, 4406, 4501, 4504, 4505, 4506, 4601, 4604, 4605,	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
4606, 4701, 4704, 4705, 4706, 4801, 4804, 4805, 4806, 4901, 4904, 4905, 4906, 5001, 5004, 5005, 5006, 5101, 5104, 5105, 5106, 5304, 5305, 5404, 5405, 5504, 5505, 5604, 5605, 5704, 5705, 5804, 5805, 5904, 5905												
All other dwellings	central cooling system 1 (zoned)	central cooling system 1 (zoned)	central heating system 1 (zoned)	central heating system 1 (zoned)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	induction cooktop & electric oven	6 star	yes	4.5 star	5 star	10 star	yes	yes

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

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
501	27.9	17.1
502	21.3	8.7
503	21.2	10.1
504	36.8	19.5
505	21.9	21.2
506	18.6	23.2
601	25.7	17.2
602	19.2	8.8
603	17.7	10.2
604	33.7	20.1
605	22.9	20.2
606	19.0	22.5
701	25.8	17.1
702	19.2	8.7
703	17.5	10.2
704	33.6	20.2
705	23.3	20.2
706	19.5	21.7
801	25.9	17.1
802	20.3	8.7
803	16.0	10.0
804	33.3	20.2
805	24.1	20.0
806	19.5	21.8
901	26.4	22.5
902	12.5	12.8
903	10.5	14.1

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
904	15.7	13.5
905	7.1	21.4
906	4.1	21.2
907	27.7	15.0
908	26.8	15.5
909	5.9	27.6
1001	26.6	21.8
1002	12.5	12.6
1003	10.5	14.2
1004	15.5	14.2
1005	6.9	20.5
1006	5.1	21.5
1007	27.7	14.7
1008	26.9	15.5
1009	6.0	27.3
1101	26.6	22.0
1102	12.1	12.5
1103	10.3	14.2
1104	15.4	14.3
1105	6.8	21.2
1106	5.1	22.3
1107	27.7	14.6
1108	27.1	15.5
1109	6.1	27.1
1110	9.3	23.7
1201	26.4	21.9
1202	11.3	12.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
1203	9.8	14.3
1204	15.1	14.3
1205	6.5	23.6
1206	5.0	24.2
1207	27.4	14.8
1208	27.1	15.6
1209	6.2	27.1
1210	9.3	23.5
1301	26.9	21.9
1302	8.9	12.7
1303	8.1	14.6
1304	14.4	14.2
1305	6.2	24.2
1306	4.8	24.5
1307	26.2	15.2
1308	27.3	15.7
1309	6.3	26.9
1310	9.4	23.2
1401	25.2	22.4
1402	3.2	12.7
1403	2.8	14.9
1404	12.5	14.8
1405	4.3	26.2
1406	3.8	26.4
1407	25.6	16.1
1408	28.0	15.4
1409	6.3	26.6

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
1410	9.5	22.8
1501	8.7	7.3
1502	6.0	7.0
1503	3.5	8.2
1504	6.6	17.2
1505	2.1	29.4
1506	25.1	14.6
1507	37.6	10.8
1508	6.3	18.0
1601	7.7	7.4
1602	3.3	7.2
1604	5.0	14.5
1605	1.5	28.8
1606	21.8	15.1
1607	37.5	10.6
1701	7.4	7.9
1702	2.3	7.5
1704	2.9	18.6
1705	0.8	28.8
1706	20.6	15.2
1707	37.5	10.3
1708	8.7	17.6
1801	7.1	8.3
1802	2.0	7.6
1803	1.2	9.3
1804	2.5	19.2
1805	1.0	28.8

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
1806	20.6	15.1
1807	37.6	10.4
1808	8.7	17.1
1901	6.8	8.8
1902	1.9	7.9
1903	1.2	8.7
1904	2.4	19.1
1905	1.1	28.8
1906	20.7	15.1
1907	37.5	10.4
2001	6.8	9.0
2003	1.2	8.8
2004	2.4	19.0
2005	1.1	29.3
2006	20.8	15.0
2007	37.3	10.7
2101	6.7	9.1
2102	1.5	8.0
2103	1.3	8.8
2104	2.5	19.5
2105	1.1	28.9
2106	21.0	15.0
2107	36.9	11.0
2201	6.5	9.8
2203	1.3	8.5
2204	2.5	19.3
2205	1.2	29.1

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
2206	21.1	15.1
2207	36.6	10.9
2208	5.2	19.8
2301	6.3	10.6
2303	1.3	8.7
2304	2.6	19.0
2305	1.2	29.2
2306	21.2	14.9
2307	36.1	11.2
2308	5.0	21.2
2401	6.1	11.8
2403	1.4	8.5
2404	2.7	18.8
2405	1.0	28.5
2407	34.8	11.7
2408	4.6	21.6
2501	5.7	13.2
2505	1.0	28.4
2507	33.6	11.9
2508	4.6	22.2
2601	5.5	13.7
2602	1.7	7.7
2603	1.4	8.4
2605	1.0	28.3
2607	33.2	11.9
2608	3.9	22.5
2701	5.5	13.5

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
2702	2.0	7.8
2705	1.1	28.3
2706	31.4	15.5
2707	44.4	11.9
2708	4.1	25.3
2802	1.1	7.9
2804	3.0	17.8
2805	2.5	27.7
2806	8.6	23.9
2902	1.1	7.8
2903	1.5	8.2
2904	3.0	7.9
2906	30.6	15.5
2907	43.6	11.1
2908	3.6	25.5
3002	1.2	7.7
3003	1.5	8.1
3006	23.5	15.7
3007	34.4	11.4
3008	4.0	25.3
3101	5.7	13.8
3102	1.3	7.7
3105	1.1	26.8
3106	23.6	15.7
3107	34.5	11.0
3108	3.8	25.6
3201	5.7	13.6

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
3206	23.6	15.6
3207	34.6	10.9
3208	4.0	24.4
3302	1.3	7.5
3304	3.1	17.8
3305	1.2	26.5
3306	23.7	15.3
3307	34.8	11.1
3308	4.0	24.1
3406	23.7	15.6
3407	34.7	10.8
3408	3.9	23.8
3501	5.8	13.6
3505	1.2	26.4
3506	23.8	15.6
3507	34.9	10.8
3508	4.0	23.5
3601	5.8	14.0
3603	1.6	7.8
3604	3.2	17.7
3605	1.2	26.8
3606	23.9	15.5
3608	4.1	23.7
3701	6.2	14.0
3702	1.4	7.2
3703	1.5	7.6
3704	3.2	17.5

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
3706	23.9	15.6
3708	3.9	23.6
3801	7.0	14.4
3802	1.4	7.3
3803	2.4	7.5
3804	3.8	18.3
3806	24.4	15.6
3807	35.5	10.9
3808	3.9	23.3
3901	16.9	24.1
3902	9.2	7.6
3904	7.7	15.8
3905	24.0	12.1
3906	30.3	10.7
4001	17.0	24.0
4004	7.7	15.7
4005	23.6	12.1
4006	30.0	10.9
4101	16.9	23.8
4103	10.0	7.6
4104	7.7	15.6
4105	23.7	12.1
4106	30.0	10.8
4201	17.1	24.2
4205	23.7	12.2
4206	30.1	10.6
4301	17.1	24.1

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
4305	23.8	12.2
4306	30.1	10.5
4401	17.1	23.8
4404	7.8	15.7
4406	30.2	10.5
4501	17.1	23.6
4502	9.4	7.8
4503	10.1	7.8
4506	30.1	10.4
4601	17.2	23.5
4603	10.2	7.7
4606	30.3	10.3
4701	17.2	23.2
4703	10.2	7.6
4706	30.2	10.2
4804	7.9	15.3
4805	24.1	12.0
4806	30.4	10.1
4905	24.1	12.1
4906	30.4	10.2
5001	17.4	22.9
5006	30.5	10.3
5101	17.5	22.7
5105	35.1	14.4
5106	43.6	12.4
5201	9.1	8.3
5202	2.4	8.6

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
5203	3.2	7.4
5204	5.8	11.5
5205	1.5	27.3
5301	10.8	12.3
5304	28.0	15.1
5305	37.7	11.6
5401	10.5	12.2
5402	8.9	6.5
5404	17.5	15.8
5602	9.0	6.4
5702	8.9	6.3
5704	17.7	15.7
5802	22.0	7.6
5804	17.8	15.6
5901	25.3	14.2
5903	19.3	19.4
5904	29.1	18.5
5905	37.5	13.7
910, 1010	9.1	23.6
1603, 1703	1.1	9.4
1608, 1908	8.6	17.8
2008, 2108	6.8	20.3
2202, 2302	1.6	8.0
2504, 2604	2.7	18.7
2704, 3204	3.0	18.0
2905, 3005	1.1	27.2
3004, 3104	3.0	17.6

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
3103, 3203	1.6	8.1
3202, 3402	1.3	7.4
3205, 3405	1.1	26.2
3301, 3401	5.7	13.5
3404, 3504	3.1	17.9
3502, 3602	1.4	7.4
3607, 3707	35.0	10.8
3705, 3805	1.2	26.6
3903, 4003	9.9	7.6
4002, 4102	9.3	7.6
4405, 4505	23.9	12.1
4504, 4604	7.8	15.5
4602, 4702	9.5	7.7
4605, 4705	24.0	12.0
4801, 4901	17.3	23.1
4802, 4902	9.6	7.7
4803, 4903	10.3	7.4
5002, 5102	9.7	7.7
5003, 5103	10.4	7.5
5005, 5505	24.2	12.0
5302, 5502	9.0	6.5
5405, 5605	24.2	11.7
5501, 5601	10.6	12.3
5504, 5604	17.7	15.5
5701, 5801	10.6	12.2
5703, 5803	6.9	16.5
5705, 5805	24.3	11.7

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
2002, 3303, 3403	1.5	7.9
2402, 2502, 3503	1.6	7.9
2406, 2506, 2606	21.3	15.0
2503, 2703, 2803	1.4	8.3
2801, 2901, 3001	5.6	13.5
4202, 4302, 4402	9.4	8.0
4203, 4303, 4403	10.1	7.5
4204, 4304, 4704	7.8	15.6
4904, 5004, 5104	7.9	15.5
All other dwellings	6.9	16.6

(b) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	4 star (> 4.5 but ≤ 6 L/min)	4 star	5 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Central water tank - rainwater or stormwater (No. 1)	5000.0	To collect run-off from at least: - 95.0 square metres of roof area of buildings in the development - 0.0 square metres of impervious area in the development - 0.0 square metres of garden/lawn area in the development - 0.0 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 610.0 square metres of common landscaped area on the site - car washing in 1 car washing bays on the site
Pool (No. 1)	Volume: 131.0 kLs	Location: 12 Hassall Street Pool shaded: no	-

Central systems	Size	Configuration	Connection (to allow for...)
Pool (No. 2)	Volume: 116.0 kLs	Location: 12 Hassall Street Pool shaded: no	-
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
Basement Level 5	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	Yes
Basement Level 4	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	Yes
Basement Level 3	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	Yes
Basement Level 2	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	Yes
Basement Level 1	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	Yes
Lift car (No.1)	-	-	light-emitting diode	connected to lift call button	Yes
Lift car (No.2)	-	-	light-emitting diode	connected to lift call button	Yes

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No.3)	-	-	light-emitting diode	connected to lift call button	Yes
Lift car (No.4)	-	-	light-emitting diode	connected to lift call button	Yes
Lift car (No.5)	-	-	light-emitting diode	connected to lift call button	Yes
Residential Waste	ventilation exhaust only	-	light-emitting diode	motion sensors	Yes
Bulky Waste Store	ventilation exhaust only	-	light-emitting diode	motion sensors	Yes
Chute Discharge Room	ventilation exhaust only	-	light-emitting diode	motion sensors	Yes
Amenities Level 4	air conditioning system	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Grease Arrestor Room	ventilation exhaust only	interlocked to light	light-emitting diode	motion sensors	Yes
DAS/MDF	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	motion sensors	Yes
Electrical Switch Room	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	motion sensors	Yes
MER	ventilation (supply + exhaust)	thermostatically controlled	light-emitting diode	motion sensors	Yes
Pumpset Room	ventilation exhaust only	interlocked to light	light-emitting diode	motion sensors	Yes
Switchgear Room	no mechanical ventilation	-	light-emitting diode	motion sensors	Yes
Level 59 Plant	no mechanical ventilation	-	light-emitting diode	motion sensors	Yes
Aquatic Plant	no mechanical ventilation	-	light-emitting diode	motion sensors	Yes
Store	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes
Manager Room	air conditioning system	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
End of Trip	ventilation (supply + exhaust)	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Concierge BOH	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 60 Store	no mechanical ventilation	-	light-emitting diode	motion sensors	Yes
Level 60 Acc WC	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	motion sensors	Yes

	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
Residential Lobby	air conditioning system	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Basement Level 1 Lobby	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 5-8 Hallway	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 9-14 Hallway	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 15-27 Hallway	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 28 Hallway	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 29-38 Hallway	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 39-51 Hallway	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 52 Hallway	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 53-58 Hallway	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes
Level 59 Hallway	ventilation supply only	time clock or BMS controlled	light-emitting diode	time clock and motion sensors	Yes

Central energy systems	Type	Specification
Central hot water system (No. 1)	electric heat pump - air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Central cooling system (No. 1)	variable refrigerant volume units	Energy source: electric driven compressor Heat rejection method: water cooled condenser Unit efficiency (min): high - COP > 5.5

Central energy systems	Type	Specification
Central heating system (No. 1)	variable refrigerant volume units	Energy source: electric driven compressor + water sourced evaporator Unit efficiency: high - COP > 5.5
Lift (No. 1)	permanent magnet synchronous motor (PMSM) and regenerative drive	Number of levels (including basement): 33
Lift (No. 2)	permanent magnet synchronous motor (PMSM) and regenerative drive	Number of levels (including basement): 66
Lift (No. 3)	permanent magnet synchronous motor (PMSM) and regenerative drive	Number of levels (including basement): 66
Lift (No. 4)	permanent magnet synchronous motor (PMSM) and regenerative drive	Number of levels (including basement): 33
Lift (No. 5)	permanent magnet synchronous motor (PMSM) and regenerative drive	Number of levels (including basement): 66
Pool (No. 1)	Heating source: electric heat pump	Pump controlled by timer: yes
Pool (No. 2)	Heating source: electric heat pump	Pump controlled by timer: yes

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	4 star (> 4.5 but ≤ 6 L/min)	4 star	5 star	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
Other	Building management system installed?: yes	-

Notes

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

Legend

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