

# BASIX<sup>®</sup>Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Multi Dwelling

Certificate number: 742824M\_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 06/10/2017 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number 742824M lodged with the consent authority or certifier on 14 October 2016 with application DA968/2016.

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 Environmental Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 23 August 2019

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



### Project summary

Project name	Lot 5, 158-164 Hawkesbury Road, West_04
Street address	158-164 Hawkesbury Road Westmead 2145
Local Government Area	Parramatta City Council
Plan type and plan number	deposited 1077852
Lot no.	-
Section no.	-
No. of residential flat buildings	3
No. of units in residential flat buildings	555
No. of multi-dwelling houses	0
No. of single dwelling houses	0

### Project score

Water	✓ 40	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 21	Target 20

### Certificate Prepared by

Name / Company Name: Windtech Consultants

ABN (if applicable): 72050574037

# Description of project

## Project address

Project name	Lot 5, 158-164 Hawkesbury Road, West_04
Street address	158-164 Hawkesbury Road Westmead 2145
Local Government Area	Parramatta City Council
Plan type and plan number	deposited 1077852
Lot no.	-
Section no.	-

## Project type

No. of residential flat buildings	3
No. of units in residential flat buildings	555
No. of multi-dwelling houses	0
No. of single dwelling houses	0

## Site details

Site area (m <sup>2</sup> )	9389
Roof area (m <sup>2</sup> )	4314
Non-residential floor area (m <sup>2</sup> )	-
Residential car spaces	547
Non-residential car spaces	107




## Common area landscape

Common area lawn (m <sup>2</sup> )	0.0
Common area garden (m <sup>2</sup> )	2400.0
Area of indigenous or low water use species (m <sup>2</sup> )	0.0

## Assessor details

Assessor number	20887
Certificate number	0004150710
Climate zone	56

## Project score

Water	 40	Target 40
Thermal Comfort	 Pass	Target Pass
Energy	 21	Target 20

## Description of project

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

### Residential flat buildings - Building A, 118 dwellings, 10 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
101	2	79.9	3.2	0.0	0.0
105	2	83.0	1.1	0.0	0.0
109	1	64.0	1.56	0.0	0.0
113	1	62.4	1.2	0.0	0.0
202	1	47.8	1.3	0.0	0.0
206	1	55.3	1.8	0.0	0.0
210	2	83.3	1.06	0.0	0.0
214	1	62.4	1.2	0.0	0.0
302	1	47.8	1.3	0.0	0.0
306	1	55.3	1.8	0.0	0.0
310	2	83.3	1.06	0.0	0.0
314	1	61.4	1.2	0.0	0.0
402	1	47.8	1.3	0.0	0.0
406	1	55.3	1.8	0.0	0.0
410	1	54.1	1.5	0.0	0.0
502	1	47.8	1.3	0.0	0.0
506	1	55.3	1.8	0.0	0.0
510	1	54.1	1.5	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
102	1	47.8	1.3	0.0	0.0
106	1	55.3	1.8	0.0	0.0
110	2	73.4	1.0	0.0	0.0
114	1	56.1	1.7	0.0	0.0
203	1	52.6	1.4	0.0	0.0
207	2	78.0	1.49	0.0	0.0
211	2	73.4	1.0	0.0	0.0
215	1	56.1	1.7	0.0	0.0
303	1	52.6	1.4	0.0	0.0
307	2	78.0	1.49	0.0	0.0
311	2	73.4	1.0	0.0	0.0
315	1	56.1	1.7	0.0	0.0
403	1	52.6	1.4	0.0	0.0
407	1	49.0	1.2	0.0	0.0
411	1	56.1	1.7	0.0	0.0
503	1	52.6	1.4	0.0	0.0
507	1	49.0	1.2	0.0	0.0
511	1	56.1	1.7	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
103	1	53.0	1.2	0.0	0.0
107	2	78.0	1.5	0.0	0.0
111	1	52.2	1.7	0.0	0.0
115	2	71.5	1.8	0.0	0.0
204	2	74.3	1.7	0.0	0.0
208	2	85.7	1.1	0.0	0.0
212	1	52.2	1.7	0.0	0.0
216	2	71.5	1.8	0.0	0.0
304	2	74.3	1.7	0.0	0.0
308	2	85.7	1.1	0.0	0.0
312	1	52.2	1.7	0.0	0.0
316	2	71.5	1.8	0.0	0.0
404	2	74.3	1.7	0.0	0.0
408	1	51.5	1.3	0.0	0.0
412	2	71.5	1.8	0.0	0.0
504	2	74.3	1.7	0.0	0.0
508	1	50.6	1.3	0.0	0.0
512	2	71.5	1.8	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
104	2	74.1	1.7	0.0	0.0
108	2	85.7	1.1	0.0	0.0
112	1	57.3	1.5	0.0	0.0
201	2	83.7	1.9	0.0	0.0
205	2	83.0	1.1	0.0	0.0
209	1	64.0	1.56	0.0	0.0
213	1	57.3	1.5	0.0	0.0
301	2	79.9	3.2	0.0	0.0
305	2	83.0	1.1	0.0	0.0
309	1	64.0	1.56	0.0	0.0
313	1	57.3	1.5	0.0	0.0
401	2	79.9	3.2	0.0	0.0
405	2	83.0	1.1	0.0	0.0
409	2	75.1	1.4	0.0	0.0
501	2	79.9	3.2	0.0	0.0
505	2	83.0	1.1	0.0	0.0
509	2	75.1	1.4	0.0	0.0
601	2	79.9	3.2	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
602	1	47.8	1.3	0.0	0.0
606	1	55.3	1.8	0.0	0.0
610	1	54.1	1.5	0.0	0.0
702	1	47.8	1.3	0.0	0.0
706	1	55.3	1.8	0.0	0.0
710	1	54.1	1.5	0.0	0.0
802	1	47.8	1.3	0.0	0.0
806	1	55.3	1.8	0.0	0.0
810	1	54.1	1.5	0.0	0.0
G02	1	57.1	1.0	0.0	0.0
G06	1	57.3	1.5	0.0	0.0
LG01	1	60.0	1.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
603	1	52.6	1.4	0.0	0.0
607	1	49.0	1.2	0.0	0.0
611	1	56.1	1.7	0.0	0.0
703	1	52.6	1.4	0.0	0.0
707	1	49.0	1.2	0.0	0.0
711	1	56.1	1.7	0.0	0.0
803	1	52.6	1.4	0.0	0.0
807	1	49.0	1.2	0.0	0.0
811	1	56.1	1.7	0.0	0.0
G03	1	44.8	2.3	0.0	0.0
G07	1	52.2	1.7	0.0	0.0
LG02	1	64.2	1.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
604	2	74.3	1.7	0.0	0.0
608	1	50.6	1.3	0.0	0.0
612	2	71.5	1.8	0.0	0.0
704	2	74.3	1.7	0.0	0.0
708	1	50.6	1.3	0.0	0.0
712	2	71.5	1.8	0.0	0.0
804	2	74.3	1.7	0.0	0.0
808	1	50.6	1.3	0.0	0.0
812	2	71.5	1.8	0.0	0.0
G04	2	66.6	1.4	0.0	0.0
G08	1	58.0	2.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
605	2	83.0	1.1	0.0	0.0
609	2	75.1	1.4	0.0	0.0
701	2	79.9	3.2	0.0	0.0
705	2	83.0	1.1	0.0	0.0
709	2	75.1	1.4	0.0	0.0
801	2	79.9	3.2	0.0	0.0
805	2	83.0	1.1	0.0	0.0
809	2	75.1	1.4	0.0	0.0
G01	2	81.7	1.3	0.0	0.0
G05	1	62.4	1.2	0.0	0.0
G09	2	72.5	1.2	0.0	0.0

### Residential flat buildings - Building B1, 135 dwellings, 15 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
101	1	53.5	1.6	0.0	0.0
105	2	77.1	4.0	0.0	0.0
109	2	72.5	2.9	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
102	1	54.0	1.9	0.0	0.0
106	3	95.7	1.0	0.0	0.0
110	1	48.5	1.2	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
103	1	55.7	1.4	0.0	0.0
107	1	49.2	1.2	0.0	0.0
201	1	53.5	1.6	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
104	1	57.3	1.8	0.0	0.0
108	2	79.6	1.1	0.0	0.0
202	1	54.0	1.9	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
203	1	55.7	1.4	0.0	0.0
207	1	49.2	1.2	0.0	0.0
301	1	53.5	1.6	0.0	0.0
305	2	77.1	4.0	0.0	0.0
309	2	72.5	2.9	0.0	0.0
403	1	55.7	1.4	0.0	0.0
407	1	56.7	1.2	0.0	0.0
501	1	53.5	1.6	0.0	0.0
505	2	77.1	4.0	0.0	0.0
509	2	72.5	2.9	0.0	0.0
603	1	55.7	1.4	0.0	0.0
607	1	56.7	1.2	0.0	0.0
701	1	53.5	1.6	0.0	0.0
705	2	77.1	4.0	0.0	0.0
709	2	72.5	2.9	0.0	0.0
803	1	55.7	1.4	0.0	0.0
807	1	54.3	1.4	0.0	0.0
903	1	55.7	1.4	0.0	0.0
907	1	54.3	1.4	0.0	0.0
1003	1	55.7	1.4	0.0	0.0
1007	1	54.3	1.4	0.0	0.0
1103	1	55.7	1.4	0.0	0.0
1107	1	54.3	1.4	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
204	1	57.3	1.8	0.0	0.0
208	2	79.6	1.1	0.0	0.0
302	1	54.0	1.9	0.0	0.0
306	3	95.7	1.0	0.0	0.0
310	1	48.5	1.2	0.0	0.0
404	1	57.3	1.8	0.0	0.0
408	2	79.6	1.1	0.0	0.0
502	1	54.0	1.9	0.0	0.0
506	3	95.7	1.0	0.0	0.0
510	1	48.5	1.2	0.0	0.0
604	1	57.3	1.8	0.0	0.0
608	2	79.6	1.1	0.0	0.0
702	1	54.0	1.9	0.0	0.0
706	3	95.7	1.0	0.0	0.0
710	1	48.5	1.2	0.0	0.0
804	1	57.3	1.8	0.0	0.0
808	2	79.6	1.1	0.0	0.0
904	1	57.3	1.8	0.0	0.0
908	2	79.6	1.1	0.0	0.0
1004	1	57.3	1.8	0.0	0.0
1008	2	79.6	1.1	0.0	0.0
1104	1	57.3	1.8	0.0	0.0
1108	2	79.6	1.1	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
205	2	77.1	4.0	0.0	0.0
209	2	72.5	2.9	0.0	0.0
303	1	55.7	1.4	0.0	0.0
307	1	56.7	1.2	0.0	0.0
401	1	53.5	1.6	0.0	0.0
405	2	77.1	4.0	0.0	0.0
409	2	72.5	2.9	0.0	0.0
503	1	55.7	1.4	0.0	0.0
507	1	56.7	1.2	0.0	0.0
601	1	53.5	1.6	0.0	0.0
605	2	77.1	4.0	0.0	0.0
609	2	72.5	2.9	0.0	0.0
703	1	55.7	1.4	0.0	0.0
707	1	56.7	1.2	0.0	0.0
801	1	53.5	1.6	0.0	0.0
805	2	77.1	4.0	0.0	0.0
901	1	53.5	1.6	0.0	0.0
905	2	77.1	4.0	0.0	0.0
1001	1	53.5	1.6	0.0	0.0
1005	2	77.1	4.0	0.0	0.0
1101	1	53.5	1.6	0.0	0.0
1105	2	77.1	4.0	0.0	0.0
1201	1	53.5	1.6	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
206	3	95.7	1.0	0.0	0.0
210	1	48.5	1.2	0.0	0.0
304	1	57.3	1.8	0.0	0.0
308	2	79.6	1.1	0.0	0.0
402	1	54.0	1.9	0.0	0.0
406	3	95.7	1.0	0.0	0.0
410	1	48.5	1.2	0.0	0.0
504	1	57.3	1.8	0.0	0.0
508	2	79.6	1.1	0.0	0.0
602	1	54.0	1.9	0.0	0.0
606	3	95.7	1.0	0.0	0.0
610	1	48.5	1.2	0.0	0.0
704	1	57.3	1.8	0.0	0.0
708	2	79.6	1.1	0.0	0.0
802	1	54.0	1.9	0.0	0.0
806	3	95.7	1.0	0.0	0.0
902	1	54.0	1.9	0.0	0.0
906	3	95.7	1.0	0.0	0.0
1002	1	54.0	1.9	0.0	0.0
1006	3	95.7	1.0	0.0	0.0
1102	1	54.0	1.9	0.0	0.0
1106	3	95.7	1.0	0.0	0.0
1202	1	54.0	1.9	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1203	1	55.7	1.4	0.0	0.0
1207	1	54.3	1.4	0.0	0.0
1303	1	55.7	1.4	0.0	0.0
1307	1	54.3	1.4	0.0	0.0
1403	1	55.7	1.4	0.0	0.0
1407	1	54.3	1.4	0.0	0.0
G003	1	57.9	1.3	0.0	0.0
G007	2	78.6	1.3	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1204	1	57.3	1.8	0.0	0.0
1208	2	79.6	1.1	0.0	0.0
1304	1	57.3	1.8	0.0	0.0
1308	2	79.6	1.1	0.0	0.0
1404	1	57.3	1.8	0.0	0.0
1408	2	79.6	1.1	0.0	0.0
G004	2	78.1	1.2	0.0	0.0
G008	2	73.1	2.7	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1205	2	77.1	4.0	0.0	0.0
1301	1	53.5	1.6	0.0	0.0
1305	2	77.1	4.0	0.0	0.0
1401	1	53.5	1.6	0.0	0.0
1405	2	77.1	4.0	0.0	0.0
G001	1	52.9	1.7	0.0	0.0
G005	3	93.4	1.4	0.0	0.0
G009	1	48.5	1.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1206	3	95.7	1.0	0.0	0.0
1302	1	54.0	1.9	0.0	0.0
1306	3	95.7	1.0	0.0	0.0
1402	1	54.0	1.9	0.0	0.0
1406	3	95.7	1.0	0.0	0.0
G002	1	51.6	1.7	0.0	0.0
G006	1	49.2	1.2	0.0	0.0

### Residential flat buildings - Building B2B3, 302 dwellings, 25 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2101	1	54.3	0.0	0.0	0.0
2105	2	73.4	0.0	0.0	0.0
2109	1	53.6	0.0	0.0	0.0
2204	1	49.0	0.0	0.0	0.0
2208	2	72.7	0.0	0.0	0.0
2303	1	44.0	0.0	0.0	0.0
2307	1	50.1	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2102	1	53.8	0.0	0.0	0.0
2106	1	49.7	0.0	0.0	0.0
2201	1	54.3	0.0	0.0	0.0
2205	2	73.4	0.0	0.0	0.0
2209	1	53.6	0.0	0.0	0.0
2304	1	49.0	0.0	0.0	0.0
2308	2	72.7	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2103	1	44.0	0.0	0.0	0.0
2107	1	49.7	0.0	0.0	0.0
2202	1	53.8	0.0	0.0	0.0
2206	1	50.1	0.0	0.0	0.0
2301	1	54.3	0.0	0.0	0.0
2305	2	73.4	0.0	0.0	0.0
2309	1	53.6	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2104	1	49.0	0.0	0.0	0.0
2108	2	72.3	0.0	0.0	0.0
2203	1	44.0	0.0	0.0	0.0
2207	1	50.1	0.0	0.0	0.0
2302	1	53.8	0.0	0.0	0.0
2306	1	50.1	0.0	0.0	0.0
2401	1	54.3	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2402	1	53.8	0.0	0.0	0.0
2406	1	50.1	0.0	0.0	0.0
2501	1	54.3	0.0	0.0	0.0
2505	2	73.4	0.0	0.0	0.0
2509	1	53.6	0.0	0.0	0.0
2604	1	49.0	0.0	0.0	0.0
2608	2	72.7	0.0	0.0	0.0
2703	1	44.0	0.0	0.0	0.0
2707	1	50.1	0.0	0.0	0.0
2G02	1	48.6	0.0	0.0	0.0
3101	1	54.6	0.0	0.0	0.0
3105	1	54.0	0.0	0.0	0.0
3109	1	52.9	0.0	0.0	0.0
3203	2	75.6	0.0	0.0	0.0
3207	1	66.3	0.0	0.0	0.0
3301	1	54.6	0.0	0.0	0.0
3305	1	54.0	0.0	0.0	0.0
3309	1	52.5	0.0	0.0	0.0
3403	2	75.6	0.0	0.0	0.0
3407	1	66.3	0.0	0.0	0.0
3501	1	54.6	0.0	0.0	0.0
3505	1	54.0	0.0	0.0	0.0
3509	1	52.9	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2403	1	44.0	0.0	0.0	0.0
2407	1	50.1	0.0	0.0	0.0
2502	1	53.8	0.0	0.0	0.0
2506	1	50.1	0.0	0.0	0.0
2601	1	54.3	0.0	0.0	0.0
2605	2	73.4	0.0	0.0	0.0
2609	1	53.6	0.0	0.0	0.0
2704	1	49.0	0.0	0.0	0.0
2708	2	72.7	0.0	0.0	0.0
2G03	2	73.4	0.0	0.0	0.0
3102	2	73.4	0.0	0.0	0.0
3106	1	55.2	0.0	0.0	0.0
3110	1	55.1	0.0	0.0	0.0
3204	1	58.4	0.0	0.0	0.0
3208	1	54.6	0.0	0.0	0.0
3302	2	73.4	0.0	0.0	0.0
3306	1	55.2	0.0	0.0	0.0
3310	1	55.1	0.0	0.0	0.0
3404	1	58.4	0.0	0.0	0.0
3408	1	54.6	0.0	0.0	0.0
3502	2	73.4	0.0	0.0	0.0
3506	1	55.2	0.0	0.0	0.0
3510	1	55.1	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2404	1	49.0	0.0	0.0	0.0
2408	2	72.7	0.0	0.0	0.0
2503	1	44.0	0.0	0.0	0.0
2507	1	50.1	0.0	0.0	0.0
2602	1	53.8	0.0	0.0	0.0
2606	1	50.1	0.0	0.0	0.0
2701	1	54.3	0.0	0.0	0.0
2705	2	73.4	0.0	0.0	0.0
2709	1	53.6	0.0	0.0	0.0
2G04	1	49.7	0.0	0.0	0.0
3103	2	75.6	0.0	0.0	0.0
3107	1	66.3	0.0	0.0	0.0
3201	1	54.6	0.0	0.0	0.0
3205	1	54.0	0.0	0.0	0.0
3209	1	52.9	0.0	0.0	0.0
3303	2	75.6	0.0	0.0	0.0
3307	1	66.3	0.0	0.0	0.0
3401	1	54.6	0.0	0.0	0.0
3405	1	54.0	0.0	0.0	0.0
3409	1	52.9	0.0	0.0	0.0
3503	2	75.6	0.0	0.0	0.0
3507	1	66.3	0.0	0.0	0.0
3601	1	54.6	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
2405	2	73.4	0.0	0.0	0.0
2409	1	53.6	0.0	0.0	0.0
2504	1	49.0	0.0	0.0	0.0
2508	2	72.7	0.0	0.0	0.0
2603	1	44.0	0.0	0.0	0.0
2607	1	50.1	0.0	0.0	0.0
2702	1	53.8	0.0	0.0	0.0
2706	1	50.1	0.0	0.0	0.0
2G01	1	51.6	0.0	0.0	0.0
2G05	1	49.7	0.0	0.0	0.0
3104	1	58.4	0.0	0.0	0.0
3108	1	54.6	0.0	0.0	0.0
3202	2	73.4	0.0	0.0	0.0
3206	1	55.2	0.0	0.0	0.0
3210	1	55.1	0.0	0.0	0.0
3304	1	58.4	0.0	0.0	0.0
3308	1	54.6	0.0	0.0	0.0
3402	2	73.4	0.0	0.0	0.0
3406	1	55.2	0.0	0.0	0.0
3410	1	55.1	0.0	0.0	0.0
3504	1	58.4	0.0	0.0	0.0
3508	1	54.6	0.0	0.0	0.0
3602	2	73.4	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
3603	2	75.6	0.0	0.0	0.0
3607	1	66.3	0.0	0.0	0.0
3701	1	54.6	0.0	0.0	0.0
3705	1	54.0	0.0	0.0	0.0
3709	1	52.9	0.0	0.0	0.0
3803	2	75.6	0.0	0.0	0.0
3807	1	61.8	0.0	0.0	0.0
3811	1	55.1	0.0	0.0	0.0
3904	1	58.4	0.0	0.0	0.0
3908	1	41.1	0.0	0.0	0.0
2LG01	3	138.6	0.0	0.0	0.0
31001	1	54.6	0.0	0.0	0.0
31005	1	54.9	0.0	0.0	0.0
31009	1	55.3	0.0	0.0	0.0
31102	2	73.4	0.0	0.0	0.0
31106	1	55.2	0.0	0.0	0.0
31110	1	52.9	0.0	0.0	0.0
31203	2	75.6	0.0	0.0	0.0
31207	1	61.8	0.0	0.0	0.0
31211	1	55.1	0.0	0.0	0.0
31304	1	58.2	0.0	0.0	0.0
31308	1	41.1	0.0	0.0	0.0
31401	1	54.6	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
3604	1	58.4	0.0	0.0	0.0
3608	1	54.6	0.0	0.0	0.0
3702	2	73.4	0.0	0.0	0.0
3706	1	55.2	0.0	0.0	0.0
3710	1	55.1	0.0	0.0	0.0
3804	1	58.4	0.0	0.0	0.0
3808	1	41.1	0.0	0.0	0.0
3901	1	54.6	0.0	0.0	0.0
3905	1	54.9	0.0	0.0	0.0
3909	1	55.3	0.0	0.0	0.0
2LG02	2	84.2	0.0	0.0	0.0
31002	2	73.4	0.0	0.0	0.0
31006	1	55.2	0.0	0.0	0.0
31010	1	52.9	0.0	0.0	0.0
31103	2	75.6	0.0	0.0	0.0
31107	1	61.8	0.0	0.0	0.0
31111	1	55.1	0.0	0.0	0.0
31204	1	58.4	0.0	0.0	0.0
31208	1	41.1	0.0	0.0	0.0
31301	1	54.6	0.0	0.0	0.0
31305	1	54.9	0.0	0.0	0.0
31309	1	55.3	0.0	0.0	0.0
31402	2	73.4	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
3605	1	54.0	0.0	0.0	0.0
3609	1	52.9	0.0	0.0	0.0
3703	2	75.6	0.0	0.0	0.0
3707	1	66.3	0.0	0.0	0.0
3801	1	54.6	0.0	0.0	0.0
3805	1	54.9	0.0	0.0	0.0
3809	1	55.3	0.0	0.0	0.0
3902	2	73.4	0.0	0.0	0.0
3906	1	55.2	0.0	0.0	0.0
3910	1	52.9	0.0	0.0	0.0
2LG03	2	84.2	0.0	0.0	0.0
31003	2	75.6	0.0	0.0	0.0
31007	1	61.8	0.0	0.0	0.0
31011	1	55.1	0.0	0.0	0.0
31104	1	58.4	0.0	0.0	0.0
31108	1	41.1	0.0	0.0	0.0
31201	1	54.6	0.0	0.0	0.0
31205	1	54.9	0.0	0.0	0.0
31209	1	55.3	0.0	0.0	0.0
31302	2	73.4	0.0	0.0	0.0
31306	1	55.2	0.0	0.0	0.0
31310	1	52.9	0.0	0.0	0.0
31403	2	75.6	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
3606	1	55.2	0.0	0.0	0.0
3610	1	55.1	0.0	0.0	0.0
3704	1	58.4	0.0	0.0	0.0
3708	1	54.6	0.0	0.0	0.0
3802	2	73.4	0.0	0.0	0.0
3806	1	55.2	0.0	0.0	0.0
3810	1	52.9	0.0	0.0	0.0
3903	2	75.6	0.0	0.0	0.0
3907	1	61.8	0.0	0.0	0.0
3911	1	55.1	0.0	0.0	0.0
2LG04	1	70.5	0.0	0.0	0.0
31004	1	58.4	0.0	0.0	0.0
31008	1	41.1	0.0	0.0	0.0
31101	1	54.6	0.0	0.0	0.0
31105	1	54.9	0.0	0.0	0.0
31109	1	55.3	0.0	0.0	0.0
31202	2	73.4	0.0	0.0	0.0
31206	1	55.2	0.0	0.0	0.0
31210	1	52.9	0.0	0.0	0.0
31303	2	75.6	0.0	0.0	0.0
31307	1	61.8	0.0	0.0	0.0
31311	1	55.1	0.0	0.0	0.0
31404	1	58.4	0.0	0.0	0.0



Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
31405	1	54.9	0.0	0.0	0.0
31409	1	55.3	0.0	0.0	0.0
31502	2	73.2	0.0	0.0	0.0
31506	1	54.7	0.0	0.0	0.0
31510	1	52.9	0.0	0.0	0.0
31603	2	76.6	0.0	0.0	0.0
31607	2	68.8	0.0	0.0	0.0
31703	2	76.6	0.0	0.0	0.0
31707	2	68.8	0.0	0.0	0.0
31803	2	76.6	0.0	0.0	0.0
31807	2	68.8	0.0	0.0	0.0
31903	2	76.6	0.0	0.0	0.0
31907	2	68.8	0.0	0.0	0.0
32003	2	76.6	0.0	0.0	0.0
32007	2	68.8	0.0	0.0	0.0
32103	2	76.6	0.0	0.0	0.0
32107	2	68.8	0.0	0.0	0.0
32203	3	93.1	0.0	0.0	0.0
32207	2	71.1	0.0	0.0	0.0
32304	3	115.8	0.0	0.0	0.0
3GL01	1	58.2	0.0	0.0	0.0
3GL05	1	59.9	0.0	0.0	0.0
3LG04	2	96.9	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
31406	1	55.2	0.0	0.0	0.0
31410	1	52.9	0.0	0.0	0.0
31503	2	75.6	0.0	0.0	0.0
31507	1	61.8	0.0	0.0	0.0
31511	1	55.1	0.0	0.0	0.0
31604	2	79.0	0.0	0.0	0.0
31608	2	71.1	0.0	0.0	0.0
31704	2	79.0	0.0	0.0	0.0
31708	2	71.1	0.0	0.0	0.0
31804	2	79.0	0.0	0.0	0.0
31808	2	71.1	0.0	0.0	0.0
31904	2	79.0	0.0	4.0	0.0
31908	2	71.1	0.0	0.0	0.0
32004	2	79.0	0.0	0.0	0.0
32008	2	71.1	0.0	0.0	0.0
32104	2	79.0	0.0	0.0	0.0
32108	2	71.1	0.0	0.0	0.0
32204	3	119.6	0.0	0.0	0.0
32301	3	97.4	0.0	0.0	0.0
32305	3	91.1	0.0	0.0	0.0
3GL02	1	50.7	0.0	0.0	0.0
3LG01	3	159.1	0.0	0.0	0.0
3LG05	1	70.4	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
31407	1	61.8	0.0	0.0	0.0
31411	1	55.1	0.0	0.0	0.0
31504	1	58.4	0.0	0.0	0.0
31508	1	41.1	0.0	0.0	0.0
31601	3	97.4	0.0	0.0	0.0
31605	2	72.7	0.0	0.0	0.0
31701	3	97.4	0.0	0.0	0.0
31705	2	72.7	0.0	0.0	0.0
31801	3	97.4	0.0	0.0	0.0
31805	2	72.7	0.0	0.0	0.0
31901	3	97.4	0.0	0.0	0.0
31905	2	72.7	0.0	2.0	0.0
32001	3	97.4	0.0	0.0	0.0
32005	2	72.7	0.0	0.0	0.0
32101	3	97.4	0.0	0.0	0.0
32105	2	97.4	0.0	0.0	0.0
32201	3	97.4	0.0	0.0	0.0
32205	3	90.4	0.0	0.0	0.0
32302	3	95.4	0.0	0.0	0.0
32306	2	69.4	0.0	0.0	0.0
3GL03	1	49.0	0.0	0.0	0.0
3LG02	2	101.6	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
31408	1	41.1	0.0	0.0	0.0
31501	1	54.2	0.0	0.0	0.0
31505	1	54.9	0.0	0.0	0.0
31509	1	54.9	0.0	0.0	0.0
31602	3	95.5	0.0	0.0	0.0
31606	2	79.4	0.0	0.0	0.0
31702	3	95.5	0.0	0.0	0.0
31706	2	79.4	0.0	0.0	0.0
31802	3	95.5	0.0	0.0	0.0
31806	2	79.4	0.0	0.0	0.0
31902	3	95.5	0.0	0.0	0.0
31906	2	79.4	0.0	2.0	0.0
32002	3	95.5	0.0	0.0	0.0
32006	2	79.4	0.0	0.0	0.0
32102	3	95.5	0.0	0.0	0.0
32106	2	79.4	0.0	0.0	0.0
32202	3	95.4	0.0	0.0	0.0
32206	2	69.5	0.0	0.0	0.0
32303	3	96.6	0.0	0.0	0.0
32307	2	71.1	0.0	0.0	0.0
3GL04	1	44.2	0.0	0.0	0.0
3LG03	2	89.5	0.0	0.0	0.0

## Description of project

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

### Common areas of unit building - Building A

Common area	Floor area (m²)
Lift car (No.1)	-
Lift car (No.4)	-
Community WC	22.0
Building A Tower Lobbies	890.0

Common area	Floor area (m²)
Lift car (No.2)	-
Community room	62.0
Building A rooftop WC	6.0

Common area	Floor area (m²)
Lift car (No.3)	-
Rooftop BA SP and Lobby Relief Plant	134.0
Building A LG/GL Lobbies	365.0

### Common areas of unit building - Building B1

Common area	Floor area (m²)
Lift car (No.5)	-
Building B Tower Lobbies	791.0

Common area	Floor area (m²)
Lift car (No.6)	-

Common area	Floor area (m²)
Building B1 LG/GL Lobbies	113.0

### Common areas of unit building - Building B2B3

Common area	Floor area (m²)
Lift car (No.7)	-
Lift car (No.10)	-
Building B2B3 LG/GL Lobbies	385.0

Common area	Floor area (m²)
Lift car (No.8)	-
Rooftop B2B3 Plant	250.0
Building C Tower Lobbies	1980.0

Common area	Floor area (m²)
Lift car (No.9)	-
Rooftop B2B3 SP and Lobby Relief Plant	66.0

### Common areas of the development (non-building specific)

Common area	Floor area (m²)
Basement Carpark	25700.0
Switch room	80.0

Common area	Floor area (m²)
Carpark Ramp	55.0
LG Comms	20.0

Common area	Floor area (m²)
Loading Dock/Hoist/Garbage Holding	100.0
GL GBR B3	5.0

Common area	Floor area (m²)
LG Garbage Holding	34.0
Air Exhaust Plant	247.0
Bulk S	11.0
Building manager room	7.0
Basement Lobbies	360.0

Common area	Floor area (m²)
LG Garbage Rooms	125.0
Pump Room	29.0
Pool Plant	25.0
GL Store Room (BA)	9.0

Common area	Floor area (m²)
Air Supply Plant	339.0
Coms Room	7.0
FCR	19.0
Cleaners Store	8.0

# Schedule of BASIX commitments

## 1. Commitments for Residential flat buildings - Building A

### (a) Dwellings

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

### (b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

## 2. Commitments for Residential flat buildings - Building B1

### (a) Dwellings

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

### (b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

## 3. Commitments for Residential flat buildings - Building B2B3

### (a) Dwellings

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

### (b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

## 4. Commitments for multi-dwelling houses

## 5. Commitments for single dwelling houses

6. 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 - Building A

#### (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	3 star (> 6 but <= 7.5 L/min)	4 star	4 star	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.		✓	✓

<b>(ii) Energy</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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".		✓	

	<b>Hot water</b>	<b>Bathroom ventilation system</b>		<b>Kitchen ventilation system</b>		<b>Laundry ventilation system</b>	
<b>Dwelling no.</b>	<b>Hot water system</b>	<b>Each bathroom</b>	<b>Operation control</b>	<b>Each kitchen</b>	<b>Operation control</b>	<b>Each laundry</b>	<b>Operation control</b>
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
101, 104, 105, 107, 108, 110, 115, 201, 204, 205, 207, 208, 210, 211, 216, 301, 304, 305, 307, 308, 310, 311, 316, 401, 404, 405, 409, 412, 501, 504, 505, 509, 512, 601, 604, 605, 609, 612, 701,	1-phase airconditioning 2.5 Star (new rating)	-	1-phase airconditioning 3 Star (new rating)	-	2 (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
704, 705, 709, 712, 801, 804, 805, 809, 812, G01, G04, G09												
All other dwellings	1-phase airconditioning 2.5 Star (new rating)	-	1-phase airconditioning 3 Star (new rating)	-	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	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	-	-	-	-	gas cooktop & electric oven	-	no	4 star	-	2 star	no	-

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

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in mJ/m <sup>2</sup> /yr)
101	63.0	27.3
102	28.0	16.9
103	38.4	15.7
104	61.5	15.8
105	21.3	11.7

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
106	36.2	16.0
107	48.0	12.0
108	59.0	18.7
109	65.1	26.4
110	41.3	22.7
111	64.8	55.0
112	36.7	25.2
113	48.0	21.2
114	56.3	20.5
115	55.8	36.9
201	30.7	34.4
202	18.1	13.4
203	32.2	13.8
204	37.1	17.1
205	26.3	10.0
206	26.7	13.3
207	24.4	12.5
208	16.8	22.4
209	56.2	25.3
210	60.9	13.4
211	32.4	13.1
212	63.4	51.5
213	38.0	24.3
214	48.9	20.3
215	54.4	12.8
216	54.5	24.0
301	31.7	17.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
302	20.8	16.9
303	33.5	11.9
304	42.0	15.5
305	26.8	10.0
306	27.5	13.2
307	24.7	12.5
308	23.8	27.8
309	62.7	22.5
310	53.7	16.4
311	38.0	18.1
312	59.7	58.3
313	40.8	44.5
314	51.5	29.6
315	59.9	10.8
316	60.1	18.6
401	32.3	17.0
402	21.4	16.7
403	34.5	11.9
404	42.8	15.6
405	27.4	10.0
406	32.8	17.0
407	29.4	11.6
408	35.3	21.1
409	58.0	17.6
410	59.9	35.6
411	60.7	10.7
412	61.1	18.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
501	32.7	16.7
502	20.1	13.4
503	35.3	13.3
504	43.4	16.0
505	27.8	9.8
506	28.6	13.3
507	31.7	13.0
508	37.9	21.8
509	58.6	17.1
510	60.6	34.4
511	61.4	10.6
512	61.8	18.1
601	33.2	16.2
602	20.6	13.2
603	35.1	12.7
604	43.9	15.7
605	28.2	9.7
606	29.1	13.2
607	32.4	13.4
608	38.5	21.3
609	59.2	16.6
610	61.7	34.0
611	61.9	10.6
612	61.5	18.0
701	33.5	15.8
702	22.9	16.4
703	35.5	11.7

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
704	44.2	15.9
705	28.3	9.8
706	34.1	16.5
707	30.9	11.4
708	39.0	21.8
709	59.5	16.5
710	62.0	34.0
711	62.2	10.6
712	60.9	18.1
801	29.6	14.9
802	31.3	22.7
803	41.8	15.3
804	53.7	17.5
805	39.6	10.6
806	42.6	17.2
807	38.4	13.1
808	46.3	23.0
809	61.0	27.4
810	55.9	28.5
811	60.7	16.1
812	64.8	20.7
G01	64.8	21.6
G02	65.7	34.7
G03	54.7	23.6
G04	28.9	28.0
G05	64.9	17.5
G06	60.0	28.1

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in mJ/m <sup>2</sup> /yr)
G07	62.5	52.2
G08	62.9	37.7
G09	59.7	18.9
LG01	11.5	38.1
All other dwellings	9.8	34.6



**(b) Common areas and central systems/facilities**

<b>(i) Water</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

<b>Common area</b>	<b>Showerheads rating</b>	<b>Toilets rating</b>	<b>Taps rating</b>	<b>Clothes washers rating</b>
All common areas	3 star (> 6 but ≤ 7.5 L/min)	4 star	4 star	no common laundry facility

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

<b>(ii) Energy</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No.1)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.2)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.3)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.4)	-	-	light-emitting diode	connected to lift call button	No
Community room	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
Rooftop BA SP and Lobby Relief Plant	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Community WC	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
Building A rooftop WC	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
Building A LG/GL Lobbies	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No
Building A Tower Lobbies	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No

Central energy systems	Type	Specification
Lift (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 15
Lift (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 15

Central energy systems	Type	Specification
Lift (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 14
Lift (No. 4)	gearless traction with V V V F motor	Number of levels (including basement): 14

## 2. Commitments for Residential flat buildings - Building B1

### (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	3 star (> 6 but <= 7.5 L/min)	4 star	4 star	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.		✓	✓

<b>(ii) Energy</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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".		✓	

	<b>Hot water</b>	<b>Bathroom ventilation system</b>		<b>Kitchen ventilation system</b>		<b>Laundry ventilation system</b>	
<b>Dwelling no.</b>	<b>Hot water system</b>	<b>Each bathroom</b>	<b>Operation control</b>	<b>Each kitchen</b>	<b>Operation control</b>	<b>Each laundry</b>	<b>Operation control</b>
All dwellings	central hot water system 2	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
106, 206, 306, 406, 506, 606, 706, 806, 906, 1006, 1106, 1206, 1306, 1406	1-phase airconditioning 2.5 Star (new rating)	-	1-phase airconditioning 3 Star (new rating)	-	3 (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
105, 108, 109, 205, 208, 209, 305, 308, 309, 405, 408, 409, 505, 508, 509, 605, 608, 609, 705, 708, 709, 805, 808, 905, 908, 1005, 1008, 1105, 1108, 1205, 1208, 1305, 1308, 1405, 1408, G004, G007, G008	1-phase airconditioning 2.5 Star (new rating)	-	1-phase airconditioning 3 Star (new rating)	-	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
All other dwellings	1-phase airconditioning 2.5 Star (new rating)	-	1-phase airconditioning 3 Star (new rating)	-	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes

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	-	-	-	-	gas cooktop & electric oven	-	no	4 star	-	2 star	no	-

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.	✓		
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.		✓	

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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/m <sup>2</sup> /yr)	Area adjusted cooling load (in mJ/m <sup>2</sup> /yr)
101	46.2	16.1
102	56.5	25.4
103	60.3	18.8
104	32.2	11.9
105	40.7	22.5
106	59.0	27.7
107	53.7	30.1
108	59.3	20.2
109	22.4	13.9
110	26.2	13.3
201	49.9	11.5
202	42.8	30.2
203	35.4	18.0
204	26.1	12.0
205	40.6	19.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
206	60.5	26.7
207	58.1	27.3
208	60.5	19.2
209	25.9	10.7
210	30.2	11.2
301	44.8	11.3
302	41.1	22.5
303	33.9	14.0
305	45.0	15.1
306	53.1	18.7
307	56.1	32.4
308	59.2	9.3
309	28.7	11.4
310	30.8	11.2
401	40.8	11.2
402	41.2	28.0
403	33.3	13.9
404	26.3	9.9
405	45.4	14.8
406	54.0	18.2
407	50.0	31.5
408	60.0	9.2
409	29.4	11.0
410	31.5	10.9
501	39.2	11.3
502	40.0	27.6
503	33.6	13.8

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
505	45.4	14.5
506	54.7	17.8
507	60.8	14.2
508	59.6	9.4
509	27.2	10.0
510	31.9	11.1
601	37.8	11.6
602	35.2	22.4
603	34.0	13.9
604	27.2	9.7
605	44.6	14.0
606	55.4	17.3
607	61.6	14.1
608	59.8	9.4
609	28.3	10.3
610	32.3	11.1
701	36.8	11.8
702	35.0	22.5
703	34.2	13.1
704	27.4	9.7
705	38.3	14.2
706	55.8	17.5
707	62.0	14.1
708	58.7	9.1
709	39.3	11.1
710	40.6	18.7
801	56.8	28.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
802	29.6	20.0
803	34.6	13.1
804	32.9	10.2
805	37.2	13.9
806	56.4	17.2
807	62.8	13.9
808	56.2	9.1
901	56.8	30.0
904	33.1	10.3
906	56.9	17.2
907	63.2	13.8
908	56.3	9.4
1001	57.6	29.2
1004	33.4	10.3
1006	57.2	17.1
1007	63.6	13.6
1008	56.2	9.6
1101	57.9	29.0
1102	36.0	26.5
1103	34.9	13.2
1104	33.7	10.4
1105	36.6	13.8
1106	57.7	17.0
1107	60.9	13.5
1108	56.5	9.6
1201	58.1	28.9
1202	36.2	27.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
1203	35.3	12.7
1204	34.0	10.5
1205	36.9	13.5
1206	57.8	16.9
1207	58.5	13.8
1208	56.5	10.2
1301	58.5	28.2
1302	36.5	28.0
1303	35.5	12.7
1304	34.3	10.5
1305	37.1	13.9
1306	57.8	17.1
1307	58.9	13.9
1308	56.5	10.0
1401	58.6	26.3
1402	44.6	28.7
1403	38.0	19.2
1404	40.7	14.2
1405	43.9	13.2
1406	62.2	16.3
1407	52.5	20.9
1408	52.0	14.5
G001	63.6	14.3
G002	51.7	20.2
G003	63.1	17.7
G004	56.7	21.0
G005	65.3	32.1

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in mJ/m <sup>2</sup> /yr)
G006	56.8	22.4
G007	64.6	23.9
G008	49.5	10.9
G009	58.1	11.1
304, 504	26.7	9.8
902, 1002	29.5	20.8
903, 1003	34.8	13.2
All other dwellings	36.7	14.0

**(b) Common areas and central systems/facilities**

<b>(i) Water</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

<b>Common area</b>	<b>Showerheads rating</b>	<b>Toilets rating</b>	<b>Taps rating</b>	<b>Clothes washers rating</b>
All common areas	3 star (> 6 but <= 7.5 L/min)	4 star	4 star	no common laundry facility

<b>Central systems</b>	<b>Size</b>	<b>Configuration</b>	<b>Connection (to allow for...)</b>
Fire sprinkler system (No. 3)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

<b>(ii) Energy</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓



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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No.5)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.6)	-	-	light-emitting diode	connected to lift call button	No
Building B1 LG/GL Lobbies	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No
Building B Tower Lobbies	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No

Central energy systems	Type	Specification
Lift (No. 5)	gearless traction with V V V F motor	Number of levels (including basement): 20
Lift (No. 6)	gearless traction with V V V F motor	Number of levels (including basement): 20

### 3. Commitments for Residential flat buildings - Building B2B3

#### (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	3 star (> 6 but <= 7.5 L/min)	4 star	4 star	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.		✓	✓

<b>(ii) Energy</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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".		✓	

	<b>Hot water</b>	<b>Bathroom ventilation system</b>		<b>Kitchen ventilation system</b>		<b>Laundry ventilation system</b>	
<b>Dwelling no.</b>	<b>Hot water system</b>	<b>Each bathroom</b>	<b>Operation control</b>	<b>Each kitchen</b>	<b>Operation control</b>	<b>Each laundry</b>	<b>Operation control</b>
All dwellings	central hot water system 3	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
2LG01, 31701, 31702, 31801, 31802, 31901, 31902, 32001, 32002, 32101, 32102, 32201, 32202, 32203, 32204, 32205, 32301, 32302, 32303, 32304, 32305, 3LG01	1-phase airconditioning 2.5 Star (new rating)	-	1-phase airconditioning 3 Star (new rating)	-	3 (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
2105, 2108, 2205, 2208, 2305, 2308, 2405, 2408, 2505, 2508, 2605, 2608, 2705, 2708, 2G03, 3102, 3103, 3202, 3203, 3302, 3303, 3402, 3403, 3502, 3503, 3602, 3603, 3702, 3703, 3802, 3803, 3902, 3903, 2LG02, 2LG03, 31002, 31003, 31102, 31103,	1-phase airconditioning 2.5 Star (new rating)	-	1-phase airconditioning 3 Star (new rating)	-	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
31202, 31203, 31302, 31303, 31402, 31403, 31502, 31503, 31603, 31604, 31605, 31606, 31607, 31608, 31703, 31704, 31705, 31706, 31707, 31708, 31803, 31804, 31805, 31806, 31807, 31808, 31903, 31904, 31905, 31906, 31907, 31908, 32003, 32004, 32005, 32006, 32007, 32008, 32103,												

	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
32104, 32105, 32106, 32107, 32108, 32206, 32207, 32306, 32307, 3LG02, 3LG03, 3LG04												
All other dwellings	1-phase airconditioning 2.5 Star (new rating)	-	1-phase airconditioning 3 Star (new rating)	-	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	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	-	-	-	-	gas cooktop & electric oven	-	no	4 star	-	2 star	no	-



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

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in mJ/m <sup>2</sup> /yr)
2101	65.9	36.2
2102	22.9	31.4
2103	59.7	22.0
2104	53.0	12.6
2105	25.5	18.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
2108	47.0	20.9
2109	42.3	18.7
2201	39.8	35.6
2202	22.8	31.1
2203	59.9	21.8
2204	53.8	12.3
2205	26.2	16.6
2206	59.3	11.7
2207	58.9	12.0
2208	48.3	20.5
2209	34.8	17.8
2301	41.1	34.1
2302	23.1	30.9
2303	63.0	18.0
2304	59.2	10.8
2305	29.9	14.8
2306	64.7	10.6
2307	64.2	11.0
2308	54.3	17.8
2309	39.6	14.8
2401	42.5	32.7
2402	23.7	30.5
2403	63.4	17.9
2404	58.5	10.9
2405	30.6	14.1
2406	65.6	10.2
2407	65.0	10.6

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
2408	55.9	17.3
2409	40.4	14.7
2501	43.4	32.3
2502	23.4	30.3
2503	63.8	17.9
2504	58.9	10.7
2505	31.1	14.0
2506	57.2	20.0
2507	65.8	10.5
2508	55.3	14.2
2509	41.0	14.8
2601	44.4	31.3
2602	22.6	30.3
2603	64.1	17.7
2604	59.4	10.8
2605	31.6	14.0
2606	58.2	20.2
2607	58.8	19.1
2608	53.3	14.1
2609	41.3	14.2
2701	47.0	50.6
2702	22.8	30.1
2703	51.5	34.6
2704	65.4	10.7
2705	41.8	14.5
2706	60.0	13.3
2707	59.4	13.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
2708	60.6	12.3
2709	37.6	21.7
2G01	64.2	25.6
2G02	55.2	21.9
2G03	46.8	11.1
3101	61.1	52.1
3102	42.5	19.9
3103	49.4	31.9
3104	64.3	54.2
3105	55.5	58.6
3106	59.4	44.8
3107	55.4	52.0
3108	28.6	29.0
3109	59.2	44.1
3110	61.6	35.6
3201	47.6	41.0
3202	43.8	19.4
3203	39.2	31.2
3204	60.7	55.3
3205	47.2	57.6
3206	49.3	43.2
3207	54.5	49.9
3208	28.6	28.3
3209	61.2	27.4
3210	51.9	33.7
3301	50.3	30.7
3302	44.6	19.2

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
3303	45.1	24.7
3304	60.8	57.5
3305	48.6	56.0
3306	49.0	42.3
3307	55.6	48.3
3308	32.6	23.2
3309	62.4	27.0
3310	49.8	23.3
3401	51.4	28.9
3402	45.6	18.8
3403	45.9	28.0
3404	52.3	58.5
3405	49.5	53.8
3406	46.5	41.3
3407	55.6	47.1
3408	33.3	22.6
3409	63.6	26.8
3410	50.9	22.5
3501	52.2	28.9
3502	46.2	18.6
3503	46.2	30.3
3504	58.1	50.0
3505	50.7	52.3
3506	45.6	40.8
3507	53.3	46.1
3508	32.8	22.0
3509	64.5	26.8

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
3510	51.7	22.2
3601	53.0	28.3
3602	46.7	18.2
3603	46.3	33.3
3604	64.1	52.4
3605	51.3	51.5
3606	43.0	40.0
3607	53.7	44.2
3608	32.9	22.1
3609	65.3	26.5
3610	52.4	22.4
3701	53.4	27.7
3702	47.2	17.9
3703	46.2	34.3
3704	60.7	53.1
3705	52.3	48.5
3706	39.9	39.6
3707	51.2	44.0
3708	33.0	22.5
3709	65.8	25.8
3710	53.0	21.9
3801	55.4	32.1
3802	48.0	17.1
3803	46.1	34.8
3804	56.3	53.5
3805	65.1	21.0
3806	44.7	20.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
3807	58.8	21.6
3808	54.8	41.6
3809	63.7	20.9
3810	63.5	24.6
3811	53.2	22.1
3901	55.9	31.9
3902	48.3	17.0
3903	46.0	35.1
3904	53.3	53.6
3905	65.6	20.7
3907	58.6	21.6
3908	54.0	41.8
3909	60.9	20.4
3910	64.0	24.0
3911	53.7	21.8
2LG01	56.6	20.4
2LG02	53.6	50.1
2LG03	58.9	49.9
2LG04	20.3	39.6
31001	56.4	32.5
31002	48.8	16.8
31003	46.2	34.9
31004	53.0	54.3
31005	65.7	23.5
31007	59.0	21.6
31008	54.4	40.6
31009	61.4	19.5

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
31010	64.5	24.2
31011	54.2	21.8
31101	57.0	32.5
31102	49.1	16.5
31103	46.6	35.3
31104	53.3	54.1
31105	56.5	23.1
31106	43.1	20.2
31107	59.4	21.1
31108	55.0	40.2
31109	61.9	19.8
31110	65.0	24.0
31111	54.5	21.0
31201	57.3	31.8
31202	49.3	16.5
31203	46.8	35.4
31204	53.5	54.6
31205	57.1	22.4
31206	43.3	20.7
31207	59.6	20.9
31208	55.1	40.2
31209	62.2	19.4
31210	65.2	23.9
31211	54.8	21.1
31301	57.7	30.5
31302	49.7	16.4
31303	47.3	34.9



	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
31304	53.8	54.6
31305	57.5	22.5
31306	43.7	20.4
31307	55.4	21.1
31308	55.6	39.7
31309	62.7	19.1
31310	65.7	23.6
31311	55.3	20.9
31401	58.2	30.3
31402	50.1	16.1
31403	47.6	34.5
31404	54.1	54.4
31405	57.8	22.6
31406	43.9	20.2
31407	55.9	20.9
31408	55.9	39.9
31409	63.2	19.2
31410	65.7	23.9
31411	55.8	21.0
31501	57.4	30.1
31502	53.5	17.2
31503	47.8	34.6
31504	59.8	51.8
31505	58.0	22.4
31506	58.4	28.3
31507	56.1	20.8
31508	56.4	39.2

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
31509	65.2	34.8
31510	65.5	24.5
31511	56.0	21.0
31601	59.3	34.2
31602	44.5	37.6
31603	46.2	35.7
31604	65.0	32.0
31605	60.6	26.8
31606	62.5	42.7
31607	62.7	31.8
31608	65.7	22.2
31701	59.8	34.7
31702	43.1	38.9
31703	45.1	35.5
31704	56.9	32.0
31705	60.9	28.3
31706	60.7	42.7
31707	51.5	32.1
31708	64.5	22.1
31801	59.9	34.7
31802	43.3	37.8
31803	45.3	35.4
31804	57.1	32.0
31805	61.1	27.3
31806	60.8	42.2
31807	51.4	32.0
31808	64.6	21.3

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
31901	60.2	34.2
31902	43.5	37.1
31903	45.4	35.5
31904	57.3	32.0
31905	61.3	27.0
31906	61.0	42.2
31908	64.8	22.7
32001	60.4	34.4
32002	43.6	37.6
32003	45.5	35.7
32004	57.4	31.6
32005	61.4	27.5
32006	61.2	42.4
32007	51.6	31.4
32008	64.8	22.0
32101	60.6	33.6
32102	43.8	37.0
32103	45.7	35.2
32104	57.6	31.3
32105	60.6	29.2
32106	61.4	42.3
32108	64.5	22.2
32201	62.1	30.2
32202	44.8	35.5
32203	59.3	19.1
32204	50.3	14.6
32205	50.5	22.8

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in mJ/m <sup>2</sup> /yr)
32206	43.7	19.0
32207	62.6	22.1
32301	65.2	25.5
32302	46.0	32.4
32303	63.4	20.9
32304	56.7	13.5
32305	56.3	31.4
32306	63.6	28.7
32307	61.0	25.2
3GL01	63.5	33.8
3GL02	61.9	23.8
3GL03	60.4	20.1
3GL04	62.3	20.3
3GL05	55.7	32.8
3LG01	23.5	30.4
3LG02	56.4	42.4
3LG03	59.7	52.5
3LG04	62.8	45.8
3LG05	64.4	49.8
2106, 2107	58.4	14.5
2G04, 2G05	62.9	21.0
3906, 31006	42.7	20.2
All other dwellings	51.5	31.5

**(b) Common areas and central systems/facilities**

<b>(i) Water</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

<b>Common area</b>	<b>Showerheads rating</b>	<b>Toilets rating</b>	<b>Taps rating</b>	<b>Clothes washers rating</b>
All common areas	3 star (> 6 but <= 7.5 L/min)	4 star	4 star	no common laundry facility

<b>Central systems</b>	<b>Size</b>	<b>Configuration</b>	<b>Connection (to allow for...)</b>
Fire sprinkler system (No. 4)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

<b>(ii) Energy</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No.7)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.8)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.9)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.10)	-	-	light-emitting diode	connected to lift call button	No
Rooftop B2B3 Plant	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Rooftop B2B3 SP and Lobby Relief Plant	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Building B2B3 LG/GL Lobbies	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No
Building C Tower Lobbies	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No

Central energy systems	Type	Specification
Lift (No. 7)	gearless traction with V V V F motor	Number of levels (including basement): 13
Lift (No. 8)	gearless traction with V V V F motor	Number of levels (including basement): 13
Lift (No. 9)	gearless traction with V V V F motor	Number of levels (including basement): 29

Central energy systems	Type	Specification
Lift (No. 10)	gearless traction with V V V F motor	Number of levels (including basement): 29

## 6. 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	3 star (> 6 but <= 7.5 L/min)	4 star	4 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Pool (No. 1)	Volume: 110.0 kLs	Location: Other 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.	-
Fire sprinkler system (No. 5)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-



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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Basement Carpark	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	No
Carpark Ramp	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No
Loading Dock/Hoist/Garbage Holding	ventilation exhaust only	none ie. continuous	light-emitting diode	time clock and motion sensors	No
Switch room	ventilation supply only	none ie. continuous	fluorescent	manual on / manual off	No
LG Comms	ventilation supply only	thermostatically controlled	fluorescent	manual on / manual off	No
GL GBR B3	ventilation exhaust only	-	fluorescent	manual on / manual off	No
LG Garbage Holding	ventilation exhaust only	-	fluorescent	manual on / manual off	No
LG Garbage Rooms	ventilation exhaust only	-	fluorescent	manual on / manual off	No
Air Supply Plant	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Air Exhaust Plant	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Pump Room	ventilation supply only	none ie. continuous	fluorescent	manual on / manual off	No
Coms Room	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Bulk S	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Pool Plant	ventilation exhaust only	none ie. continuous	fluorescent	manual on / manual off	No

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
FCR	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Building manager room	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
GL Store Room (BA)	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
Cleaners Store	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
Basement Lobbies	ventilation supply only	none ie. continuous	light-emitting diode	time clock and motion sensors	No

Central energy systems	Type	Specification
Central hot water system (No. 1)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Central hot water system (No. 2)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Central hot water system (No. 3)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Pool (No. 1)	Heating source: no heating	Pump controlled by timer: 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).