

BASIX[®]Certificate

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

Multi Dwelling

Certificate number: 1205244M

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

Secretary

Date of issue: Monday, 12 July 2021

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



Planning,
Industry &
Environment

Project summary

Project name	Mandala Parade, Castle Hill (4 tower)
Street address	2 Mandala Parade Castle Hill 2154
Local Government Area	Hills Shire Council
Plan type and plan number	deposited 1253217
Lot no.	55
Section no.	-
No. of residential flat buildings	4
No. of units in residential flat buildings	431
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Project score

Water	✓ 49	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 27	Target 25

Certificate Prepared by

Name / Company Name: Windtech Consultants

ABN (if applicable): 72050574037

Description of project

Project address

Project name	Mandala Parade, Castle Hill (4 tower)
Street address	2 Mandala Parade Castle Hill 2154
Local Government Area	Hills Shire Council
Plan type and plan number	deposited 1253217
Lot no.	55
Section no.	-

Project type

No. of residential flat buildings	4
No. of units in residential flat buildings	431
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Site details

Site area (m²)	7969
Roof area (m²)	528
Non-residential floor area (m²)	11190.0
Residential car spaces	431
Non-residential car spaces	341

Common area landscape

Common area lawn (m²)	0.0
Common area garden (m²)	3710.0
Area of indigenous or low water use species (m²)	1000.0

Assessor details

Assessor number	20887
Certificate number	0006236190
Climate zone	56
Ceiling fan in at least one bedroom	No
Ceiling fan in at least one living room or other conditioned area	No

Project score

Water	✓ 49	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 27	Target 25

Description of project

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

Residential flat buildings - Building A, 128 dwellings, 21 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A02012	83.5	0.0	0.0	0.0	0.0
A02062	78.0	0.0	0.0	0.0	0.0
A03022	78.1	0.0	0.0	0.0	0.0
A03072	78.2	0.0	0.0	0.0	0.0
A04022	78.2	0.0	0.0	0.0	0.0
A04072	78.2	0.0	0.0	0.0	0.0
A05022	78.2	0.0	0.0	0.0	0.0
A05072	78.2	0.0	0.0	0.0	0.0
A06022	78.2	0.0	0.0	0.0	0.0
A06072	78.2	0.0	0.0	0.0	0.0
A07022	77.3	0.0	0.0	0.0	0.0
A07072	78.2	0.0	0.0	0.0	0.0
A08022	76.9	0.0	0.0	0.0	0.0
A08071	51.3	0.0	0.0	0.0	0.0
A09052	82.2	0.0	0.0	0.0	0.0
A10043	103.5	0.0	0.0	0.0	0.0
A11032	79.6	0.0	0.0	0.0	0.0
A12022	79.5	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A02022	81.5	0.0	0.0	0.0	0.0
A02072	78.2	0.0	0.0	0.0	0.0
A03031	53.2	0.0	0.0	0.0	0.0
A03082	75.6	0.0	0.0	0.0	0.0
A04031	53.2	0.0	0.0	0.0	0.0
A04082	75.4	0.0	0.0	0.0	0.0
A05031	53.2	0.0	0.0	0.0	0.0
A05082	75.4	0.0	0.0	0.0	0.0
A06031	53.2	0.0	0.0	0.0	0.0
A06082	75.4	0.0	0.0	0.0	0.0
A07031	53.2	0.0	0.0	0.0	0.0
A07082	74.9	0.0	0.0	0.0	0.0
A08031	53.4	0.0	0.0	0.0	0.0
A09012	83.5	0.0	0.0	0.0	0.0
A09061	51.3	0.0	0.0	0.0	0.0
A10052	82.2	0.0	0.0	0.0	0.0
A11043	104.3	0.0	0.0	0.0	0.0
A12032	79.6	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A02031	53.2	0.0	0.0	0.0	0.0
A02082	81.6	0.0	0.0	0.0	0.0
A03041	50.5	0.0	0.0	0.0	0.0
A03092	78.4	0.0	0.0	0.0	0.0
A04041	50.5	0.0	0.0	0.0	0.0
A04092	78.4	0.0	0.0	0.0	0.0
A05041	50.5	0.0	0.0	0.0	0.0
A05092	78.4	0.0	0.0	0.0	0.0
A06041	50.5	0.0	0.0	0.0	0.0
A06092	78.4	0.0	0.0	0.0	0.0
A07041	50.5	0.0	0.0	0.0	0.0
A07092	78.2	0.0	0.0	0.0	0.0
A08041	50.5	0.0	0.0	0.0	0.0
A09022	79.5	0.0	0.0	0.0	0.0
A10012	83.4	0.0	0.0	0.0	0.0
A10061	51.3	0.0	0.0	0.0	0.0
A11052	82.2	0.0	0.0	0.0	0.0
A12043	104.3	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A02041	50.5	0.0	0.0	0.0	0.0
A02092	82.9	0.0	0.0	0.0	0.0
A03052	77.5	0.0	0.0	0.0	0.0
A03102	82.9	0.0	0.0	0.0	0.0
A04052	77.5	0.0	0.0	0.0	0.0
A04102	82.9	0.0	0.0	0.0	0.0
A05052	77.5	0.0	0.0	0.0	0.0
A05102	82.9	0.0	0.0	0.0	0.0
A06052	77.5	0.0	0.0	0.0	0.0
A06102	82.9	0.0	0.0	0.0	0.0
A07052	77.5	0.0	0.0	0.0	0.0
A07102	82.9	0.0	0.0	0.0	0.0
A08052	83.4	0.0	0.0	0.0	0.0
A09032	79.6	0.0	0.0	0.0	0.0
A10022	79.5	0.0	0.0	0.0	0.0
A11012	83.4	0.0	0.0	0.0	0.0
A11061	51.3	0.0	0.0	0.0	0.0
A12052	82.2	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A02052	77.9	0.0	0.0	0.0	0.0
A03011	52.3	0.0	0.0	0.0	0.0
A03062	78.0	0.0	0.0	0.0	0.0
A04011	52.3	0.0	0.0	0.0	0.0
A04062	78.1	0.0	0.0	0.0	0.0
A05011	52.3	0.0	0.0	0.0	0.0
A05062	81.4	0.0	0.0	0.0	0.0
A06011	52.3	0.0	0.0	0.0	0.0
A06062	81.4	0.0	0.0	0.0	0.0
A07011	51.8	0.0	0.0	0.0	0.0
A07062	81.6	0.0	0.0	0.0	0.0
A08011	61.1	0.0	0.0	0.0	0.0
A08062	82.2	0.0	0.0	0.0	0.0
A09043	103.7	0.0	0.0	0.0	0.0
A10032	79.6	0.0	0.0	0.0	0.0
A11022	79.5	0.0	0.0	0.0	0.0
A12012	83.4	0.0	0.0	0.0	0.0
A12061	51.3	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A13012	83.4	0.0	0.0	0.0	0.0
A13061	51.3	0.0	0.0	0.0	0.0
A14052	82.2	0.0	0.0	0.0	0.0
A15043	103.5	0.0	0.0	0.0	0.0
A16033	100.5	0.0	0.0	0.0	0.0
A17033	100.5	0.0	0.0	0.0	0.0
A18033	100.5	0.0	0.0	0.0	0.0
A19033	100.5	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A13022	79.5	0.0	0.0	0.0	0.0
A14012	83.4	0.0	0.0	0.0	0.0
A14061	51.3	0.0	0.0	0.0	0.0
A15052	81.9	0.0	0.0	0.0	0.0
A16042	84.8	0.0	0.0	0.0	0.0
A17042	84.8	0.0	0.0	0.0	0.0
A18042	84.8	0.0	0.0	0.0	0.0
A19042	84.8	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A13032	79.6	0.0	0.0	0.0	0.0
A14022	79.5	0.0	0.0	0.0	0.0
A15012	83.4	0.0	0.0	0.0	0.0
A15061	51.3	0.0	0.0	0.0	0.0
A16052	79.1	0.0	0.0	0.0	0.0
A17052	79.1	0.0	0.0	0.0	0.0
A18052	79.1	0.0	0.0	0.0	0.0
A19052	79.1	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A13043	103.5	0.0	0.0	0.0	0.0
A14032	79.6	0.0	0.0	0.0	0.0
A15022	78.5	0.0	0.0	0.0	0.0
A16013	122.7	0.0	0.0	0.0	0.0
A17013	122.7	0.0	0.0	0.0	0.0
A18013	122.7	0.0	0.0	0.0	0.0
A19013	122.7	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A13052	82.2	0.0	0.0	0.0	0.0
A14043	104.3	0.0	0.0	0.0	0.0
A15032	79.6	0.0	0.0	0.0	0.0
A16023	96.6	0.0	0.0	0.0	0.0
A17023	96.6	0.0	0.0	0.0	0.0
A18023	96.6	0.0	0.0	0.0	0.0
A19023	96.6	0.0	0.0	0.0	0.0

Residential flat buildings - Building C, 108 dwellings, 20 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C03012	84.6	0.0	0.0	0.0	0.0
C03063	96.4	0.0	0.0	0.0	0.0
C03112	103.3	0.0	0.0	0.0	0.0
C04052	82.2	0.0	0.0	0.0	0.0
C05042	74.7	0.0	0.0	0.0	0.0
C06032	76.0	0.0	0.0	0.0	0.0
C07022	84.6	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C03021	53.5	0.0	0.0	0.0	0.0
C03072	104.0	0.0	0.0	0.0	0.0
C04012	84.6	0.0	0.0	0.0	0.0
C04063	95.3	0.0	0.0	0.0	0.0
C05053	100.4	0.0	0.0	0.0	0.0
C06042	74.7	0.0	0.0	0.0	0.0
C07032	76.0	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C03032	77.6	0.0	0.0	0.0	0.0
C03082	103.0	0.0	0.0	0.0	0.0
C04021	53.5	0.0	0.0	0.0	0.0
C05012	75.4	0.0	0.0	0.0	0.0
C05062	86.9	0.0	0.0	0.0	0.0
C06053	100.4	0.0	0.0	0.0	0.0
C07042	74.7	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C03042	79.4	0.0	0.0	0.0	0.0
C03092	103.3	0.0	0.0	0.0	0.0
C04032	76.9	0.0	0.0	0.0	0.0
C05022	84.6	0.0	0.0	0.0	0.0
C06012	75.4	0.0	0.0	0.0	0.0
C06062	86.9	0.0	0.0	0.0	0.0
C07053	100.4	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C03052	83.3	0.0	0.0	0.0	0.0
C03102	103.3	0.0	0.0	0.0	0.0
C04042	79.4	0.0	0.0	0.0	0.0
C05032	76.0	0.0	0.0	0.0	0.0
C06022	84.6	0.0	0.0	0.0	0.0
C07012	75.4	0.0	0.0	0.0	0.0
C07062	86.9	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C08012	75.4	0.0	0.0	0.0	0.0
C08062	86.9	0.0	0.0	0.0	0.0
C09053	100.4	0.0	0.0	0.0	0.0
C10042	74.7	0.0	0.0	0.0	0.0
C11032	76.0	0.0	0.0	0.0	0.0
C12022	84.6	0.0	0.0	0.0	0.0
C13012	75.4	0.0	0.0	0.0	0.0
C13062	86.9	0.0	0.0	0.0	0.0
C14053	100.4	0.0	0.0	0.0	0.0
C15042	74.7	0.0	0.0	0.0	0.0
C16033	111.5	0.0	0.0	0.0	0.0
C17033	111.5	0.0	0.0	0.0	0.0
C18033	111.5	0.0	0.0	0.0	0.0
C19033	111.5	0.0	0.0	0.0	0.0
C20033	111.5	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C08022	84.6	0.0	0.0	0.0	0.0
C09012	75.4	0.0	0.0	0.0	0.0
C09062	86.9	0.0	0.0	0.0	0.0
C10053	100.4	0.0	0.0	0.0	0.0
C11042	74.7	0.0	0.0	0.0	0.0
C12032	76.0	0.0	0.0	0.0	0.0
C13022	84.6	0.0	0.0	0.0	0.0
C14012	75.4	0.0	0.0	0.0	0.0
C14062	86.9	0.0	0.0	0.0	0.0
C15053	100.4	0.0	0.0	0.0	0.0
C16043	100.4	0.0	0.0	0.0	0.0
C17043	100.4	0.0	0.0	0.0	0.0
C18043	100.4	0.0	0.0	0.0	0.0
C19043	100.4	0.0	0.0	0.0	0.0
C20043	100.4	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C08032	76.0	0.0	0.0	0.0	0.0
C09022	84.6	0.0	0.0	0.0	0.0
C10012	75.4	0.0	0.0	0.0	0.0
C10062	86.9	0.0	0.0	0.0	0.0
C11053	100.4	0.0	0.0	0.0	0.0
C12042	74.7	0.0	0.0	0.0	0.0
C13032	76.0	0.0	0.0	0.0	0.0
C14022	84.6	0.0	0.0	0.0	0.0
C15012	74.7	0.0	0.0	0.0	0.0
C15062	86.9	0.0	0.0	0.0	0.0
C16052	86.9	0.0	0.0	0.0	0.0
C17052	86.9	0.0	0.0	0.0	0.0
C18052	86.9	0.0	0.0	0.0	0.0
C19052	86.9	0.0	0.0	0.0	0.0
C20052	86.9	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C08042	74.7	0.0	0.0	0.0	0.0
C09032	76.0	0.0	0.0	0.0	0.0
C10022	84.6	0.0	0.0	0.0	0.0
C11012	75.4	0.0	0.0	0.0	0.0
C11062	86.9	0.0	0.0	0.0	0.0
C12053	100.4	0.0	0.0	0.0	0.0
C13042	74.7	0.0	0.0	0.0	0.0
C14032	76.0	0.0	0.0	0.0	0.0
C15022	85.2	0.0	0.0	0.0	0.0
C16012	80.6	0.0	0.0	0.0	0.0
C17012	80.6	0.0	0.0	0.0	0.0
C18012	80.6	0.0	0.0	0.0	0.0
C19012	80.6	0.0	0.0	0.0	0.0
C20012	80.6	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
C08053	100.4	0.0	0.0	0.0	0.0
C09042	74.7	0.0	0.0	0.0	0.0
C10032	76.0	0.0	0.0	0.0	0.0
C11022	84.6	0.0	0.0	0.0	0.0
C12012	75.4	0.0	0.0	0.0	0.0
C12062	86.9	0.0	0.0	0.0	0.0
C13053	100.4	0.0	0.0	0.0	0.0
C14042	74.7	0.0	0.0	0.0	0.0
C15032	75.7	0.0	0.0	0.0	0.0
C16022	87.0	0.0	0.0	0.0	0.0
C17022	87.0	0.0	0.0	0.0	0.0
C18022	87.0	0.0	0.0	0.0	0.0
C19022	87.0	0.0	0.0	0.0	0.0
C20022	87.0	0.0	0.0	0.0	0.0

Residential flat buildings - Building B, 99 dwellings, 20 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
B02011	51.5	0.0	0.0	0.0	0.0
B02062	86.3	0.0	0.0	0.0	0.0
B03052	78.7	0.0	0.0	0.0	0.0
B04032	81.5	0.0	0.0	0.0	0.0
B05011	51.5	0.0	0.0	0.0	0.0
B05062	84.4	0.0	0.0	0.0	0.0
B06041	56.3	0.0	0.0	0.0	0.0
B07021	51.2	0.0	0.0	0.0	0.0
B07072	86.3	0.0	0.0	0.0	0.0
B08052	84.4	0.0	0.0	0.0	0.0
B09042	78.7	0.0	0.0	0.0	0.0
B10032	87.9	0.0	0.0	0.0	0.0
B11022	92.6	0.0	0.0	0.0	0.0
B12022	92.6	0.0	0.0	0.0	0.0
B13022	92.6	0.0	0.0	0.0	0.0
B14022	92.6	0.0	0.0	0.0	0.0
B15022	92.6	0.0	0.0	0.0	0.0
B16022	92.6	0.0	0.0	0.0	0.0
B17022	92.6	0.0	0.0	0.0	0.0
B18022	92.6	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
B02021	51.2	0.0	0.0	0.0	0.0
B03011	51.5	0.0	0.0	0.0	0.0
B03062	84.4	0.0	0.0	0.0	0.0
B04041	56.3	0.0	0.0	0.0	0.0
B05021	51.2	0.0	0.0	0.0	0.0
B05072	86.3	0.0	0.0	0.0	0.0
B06052	78.7	0.0	0.0	0.0	0.0
B07032	80.1	0.0	0.0	0.0	0.0
B08011	51.5	0.0	0.0	0.0	0.0
B08062	86.3	0.0	0.0	0.0	0.0
B09052	84.4	0.0	0.0	0.0	0.0
B10042	78.7	0.0	0.0	0.0	0.0
B11032	92.7	0.0	0.0	0.0	0.0
B12032	92.7	0.0	0.0	0.0	0.0
B13032	92.7	0.0	0.0	0.0	0.0
B14032	92.7	0.0	0.0	0.0	0.0
B15032	92.7	0.0	0.0	0.0	0.0
B16032	92.7	0.0	0.0	0.0	0.0
B17032	92.7	0.0	0.0	0.0	0.0
B18032	92.7	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
B02032	81.4	0.0	0.0	0.0	0.0
B03021	51.2	0.0	0.0	0.0	0.0
B03072	86.3	0.0	0.0	0.0	0.0
B04052	78.7	0.0	0.0	0.0	0.0
B05032	81.5	0.0	0.0	0.0	0.0
B06011	51.5	0.0	0.0	0.0	0.0
B06062	84.4	0.0	0.0	0.0	0.0
B07041	55.9	0.0	0.0	0.0	0.0
B08022	80.0	0.0	0.0	0.0	0.0
B09011	51.5	0.0	0.0	0.0	0.0
B09062	86.3	0.0	0.0	0.0	0.0
B10052	84.4	0.0	0.0	0.0	0.0
B11042	84.4	0.0	0.0	0.0	0.0
B12042	84.4	0.0	0.0	0.0	0.0
B13042	84.4	0.0	0.0	0.0	0.0
B14042	84.4	0.0	0.0	0.0	0.0
B15042	84.4	0.0	0.0	0.0	0.0
B16042	84.4	0.0	0.0	0.0	0.0
B17042	84.4	0.0	0.0	0.0	0.0
B18042	84.4	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
B02043	121.3	0.0	0.0	0.0	0.0
B03032	81.5	0.0	0.0	0.0	0.0
B04011	51.5	0.0	0.0	0.0	0.0
B04062	84.4	0.0	0.0	0.0	0.0
B05041	56.3	0.0	0.0	0.0	0.0
B06021	51.2	0.0	0.0	0.0	0.0
B06072	86.3	0.0	0.0	0.0	0.0
B07052	78.7	0.0	0.0	0.0	0.0
B08032	88.3	0.0	0.0	0.0	0.0
B09022	80.0	0.0	0.0	0.0	0.0
B10011	51.1	0.0	0.0	0.0	0.0
B10062	86.3	0.0	0.0	0.0	0.0
B11052	86.3	0.0	0.0	0.0	0.0
B12052	86.3	0.0	0.0	0.0	0.0
B13052	86.3	0.0	0.0	0.0	0.0
B14052	86.3	0.0	0.0	0.0	0.0
B15052	86.3	0.0	0.0	0.0	0.0
B16052	86.3	0.0	0.0	0.0	0.0
B17052	86.3	0.0	0.0	0.0	0.0
B18052	86.3	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
B02051	59.0	0.0	0.0	0.0	0.0
B03041	56.3	0.0	0.0	0.0	0.0
B04021	51.2	0.0	0.0	0.0	0.0
B04072	86.3	0.0	0.0	0.0	0.0
B05052	78.7	0.0	0.0	0.0	0.0
B06032	81.5	0.0	0.0	0.0	0.0
B07011	51.5	0.0	0.0	0.0	0.0
B07062	84.4	0.0	0.0	0.0	0.0
B08042	78.7	0.0	0.0	0.0	0.0
B09032	88.3	0.0	0.0	0.0	0.0
B10022	79.6	0.0	0.0	0.0	0.0
B11012	83.7	0.0	0.0	0.0	0.0
B12012	81.9	0.0	0.0	0.0	0.0
B13012	81.9	0.0	0.0	0.0	0.0
B14012	81.9	0.0	0.0	0.0	0.0
B15012	81.9	0.0	0.0	0.0	0.0
B16012	81.9	0.0	0.0	0.0	0.0
B17012	81.9	0.0	0.0	0.0	0.0
B18012	81.9	0.0	0.0	0.0	0.0

Residential flat buildings - Building D, 96 dwellings, 19 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
D03012	92.5	0.0	0.0	0.0	0.0
D04012	91.2	0.0	0.0	0.0	0.0
D05012	79.1	0.0	0.0	0.0	0.0
D05062	74.8	0.0	0.0	0.0	0.0
D06052	85.2	0.0	0.0	0.0	0.0
D07041	60.5	0.0	0.0	0.0	0.0
D08031	56.2	0.0	0.0	0.0	0.0
D09022	75.9	0.0	0.0	0.0	0.0
D10012	79.0	0.0	0.0	0.0	0.0
D10062	74.7	0.0	0.0	0.0	0.0
D11052	85.2	0.0	0.0	0.0	0.0
D12041	60.5	0.0	0.0	0.0	0.0
D13031	56.2	0.0	0.0	0.0	0.0
D14022	75.9	0.0	0.0	0.0	0.0
D15012	79.0	0.0	0.0	0.0	0.0
D15062	74.7	0.0	0.0	0.0	0.0
D16052	74.7	0.0	0.0	0.0	0.0
D17052	74.7	0.0	0.0	0.0	0.0
D18052	74.7	0.0	0.0	0.0	0.0
D19052	74.7	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
D03022	75.9	0.0	0.0	0.0	0.0
D04022	75.9	0.0	0.0	0.0	0.0
D05022	75.9	0.0	0.0	0.0	0.0
D06012	79.0	0.0	0.0	0.0	0.0
D06062	74.7	0.0	0.0	0.0	0.0
D07052	85.2	0.0	0.0	0.0	0.0
D08041	60.5	0.0	0.0	0.0	0.0
D09031	56.2	0.0	0.0	0.0	0.0
D10022	75.9	0.0	0.0	0.0	0.0
D11012	79.0	0.0	0.0	0.0	0.0
D11062	74.7	0.0	0.0	0.0	0.0
D12052	85.2	0.0	0.0	0.0	0.0
D13041	60.5	0.0	0.0	0.0	0.0
D14031	56.2	0.0	0.0	0.0	0.0
D15022	75.9	0.0	0.0	0.0	0.0
D16012	79.0	0.0	0.0	0.0	0.0
D17012	79.0	0.0	0.0	0.0	0.0
D18012	79.0	0.0	0.0	0.0	0.0
D19012	79.0	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
D03031	56.2	0.0	0.0	0.0	0.0
D04031	56.2	0.0	0.0	0.0	0.0
D05031	56.2	0.0	0.0	0.0	0.0
D06022	75.9	0.0	0.0	0.0	0.0
D07012	79.0	0.0	0.0	0.0	0.0
D07062	74.7	0.0	0.0	0.0	0.0
D08052	85.2	0.0	0.0	0.0	0.0
D09041	60.5	0.0	0.0	0.0	0.0
D10031	56.2	0.0	0.0	0.0	0.0
D11022	75.9	0.0	0.0	0.0	0.0
D12012	79.0	0.0	0.0	0.0	0.0
D12062	74.7	0.0	0.0	0.0	0.0
D13052	85.2	0.0	0.0	0.0	0.0
D14041	60.5	0.0	0.0	0.0	0.0
D15031	56.2	0.0	0.0	0.0	0.0
D16022	75.9	0.0	0.0	0.0	0.0
D17022	75.9	0.0	0.0	0.0	0.0
D18022	75.9	0.0	0.0	0.0	0.0
D19022	75.9	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
D03041	60.7	0.0	0.0	0.0	0.0
D04041	60.5	0.0	0.0	0.0	0.0
D05041	60.5	0.0	0.0	0.0	0.0
D06031	56.2	0.0	0.0	0.0	0.0
D07022	75.9	0.0	0.0	0.0	0.0
D08012	79.0	0.0	0.0	0.0	0.0
D08062	74.7	0.0	0.0	0.0	0.0
D09052	85.2	0.0	0.0	0.0	0.0
D10041	60.5	0.0	0.0	0.0	0.0
D11031	56.2	0.0	0.0	0.0	0.0
D12022	75.9	0.0	0.0	0.0	0.0
D13012	79.0	0.0	0.0	0.0	0.0
D13062	74.7	0.0	0.0	0.0	0.0
D14052	85.2	0.0	0.0	0.0	0.0
D15041	59.6	0.0	0.0	0.0	0.0
D16032	81.0	0.0	0.0	0.0	0.0
D17032	81.0	0.0	0.0	0.0	0.0
D18032	81.0	0.0	0.0	0.0	0.0
D19032	81.0	0.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
D03052	85.2	0.0	0.0	0.0	0.0
D04052	85.2	0.0	0.0	0.0	0.0
D05052	85.2	0.0	0.0	0.0	0.0
D06041	60.5	0.0	0.0	0.0	0.0
D07031	56.2	0.0	0.0	0.0	0.0
D08022	75.9	0.0	0.0	0.0	0.0
D09012	79.0	0.0	0.0	0.0	0.0
D09062	74.7	0.0	0.0	0.0	0.0
D10052	85.2	0.0	0.0	0.0	0.0
D11041	60.5	0.0	0.0	0.0	0.0
D12031	56.2	0.0	0.0	0.0	0.0
D13022	75.9	0.0	0.0	0.0	0.0
D14012	79.0	0.0	0.0	0.0	0.0
D14062	74.7	0.0	0.0	0.0	0.0
D15052	85.2	0.0	0.0	0.0	0.0
D16042	83.3	0.0	0.0	0.0	0.0
D17042	83.1	0.0	0.0	0.0	0.0
D18042	83.1	0.0	0.0	0.0	0.0
D19042	83.1	0.0	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 (m ²)
Lift car (No.1)	-
Lift car (No.4)	-

Common area	Floor area (m ²)
Lift car (No.2)	-
L2 - L19 Residential Lobby A	1460.0

Common area	Floor area (m ²)
Lift car (No.3)	-
L2 - L18 Residential Lobby B	970.0

Common areas of unit building - Building C

Common area	Floor area (m ²)
Lift car (No.5)	-
Lift car (No.8)	-
L2 Community WC	26.0

Common area	Floor area (m ²)
Lift car (No.6)	-
L2 Community Space	243.0
L2 - L20 Residential Lobby C	940.0

Common area	Floor area (m ²)
Lift car (No.7)	-
L2 Strata Manager Office	23.0
L2 - L19 Residential Lobby D	960.0

Common areas of the development (non-building specific)

Common area	Floor area (m ²)
Basement Carparks	37780.0
B1 Switch Rooms	78.0
B4 Garbage Rooms	134.0
L1 Community Space	300.0
UL Remote Water Master Meters	24.0
L1 Substation	93.0
L1 Cold Water	35.0
GL SP Plant	58.0
B3 Art Work Plant Room	36.0
B6 to B1 Mech Exhaust Plant Rooms	280.0

Common area	Floor area (m ²)
Loading Dock	780.0
B1 Comms Room 2	31.0
L1 Bulky Goods	47.0
UL Master Gas Meter	25.0
UL FCR	15.0
L1 SP Fan Room	27.0
GL Combined Fire Hyd & Sprinkler Pump	133.0
GL BOH	27.0
B6 to B1 Mech Intake Plant Rooms	308.0
B1 SP Plant	17.0

Common area	Floor area (m ²)
B2 Main Comms	40.0
B5 Garbage Rooms	37.0
L1 Residential Waste	79.0
UL Mech Supply Plant	36.0
UL Master Gas Meter Rooms	68.0
L1 Hot Water Plant	103.0
GL Mech Supply Plant	36.0
B3-B1 Grease Trap Rooms	250.0
B2 Art Work Tank Plantroom	26.0
L1 Dock Manager	12.0

Common area	Floor area (m²)
L1 Amenity Toilets	175.0
B3 Carwash Station Kiosk	39.0
UL Residential Lobby C	46.0

Common area	Floor area (m²)
B1 EOT Facilities inc. ACC	145.0
UL Residential Lobby A	92.0
GL Residential Lobby D	54.0

Common area	Floor area (m²)
B3 Storage Room	41.0
GL Residential Lobby B	68.0

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 C

(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 B

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

4. Commitments for Residential flat buildings - Building D

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

5. Commitments for multi-dwelling houses

6. Commitments for single dwelling houses

7. 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	4 star (> 6 but <= 7.5 L/min)	4 star	5 star	5 star	-	5 star	6 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
None	-	-	-	-	-	-	-	-

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

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

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
A0904, A1004, A1104, A1204, A1304, A1404, A1504, A1601, A1602, A1603, A1701, A1702, A1703, A1801, A1802, A1803, A1901, A1902, A1903	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
A0203, A0204, A0301, A0303, A0304, A0401, A0403, A0404, A0503, A0504, A0601, A0603, A0604, A0701, A0703, A0704, A0801, A0803, A0804, A0807, A0906, A1006, A1106, A1206, A1306, A1406, A1506	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
All other dwellings	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	-	no	3 star	3 star	-	no	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/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
A0201	35.6	22.9
A0202	33.9	23.5
A0203	29.6	23.1
A0204	33.9	10.3
A0205	29.0	10.3
A0206	31.8	9.1
A0207	42.7	13.2
A0208	21.3	12.7
A0209	36.3	23.5
A0301	35.4	19.1
A0302	13.1	16.5
A0303	25.5	24.7
A0304	25.0	11.3
A0305	24.9	9.7
A0306	32.7	9.0
A0307	38.6	18.4
A0308	44.8	10.3
A0309	39.1	10.8
A0310	30.0	25.4
A0401	29.4	18.4
A0402	16.3	27.9
A0403	26.0	25.1
A0404	25.4	11.2
A0405	25.4	9.6
A0406	24.4	10.3
A0407	39.1	18.1
A0408	37.6	10.5

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
A0409	34.3	10.6
A0410	30.5	24.8
A0501	29.9	18.5
A0502	16.7	27.0
A0503	26.5	24.6
A0504	26.0	11.5
A0505	25.8	9.6
A0506	45.3	14.6
A0507	39.6	18.1
A0508	38.0	10.3
A0509	34.7	11.0
A0510	31.0	24.3
A0601	30.4	18.2
A0602	17.2	26.8
A0603	27.0	23.9
A0604	26.4	11.3
A0605	26.2	9.2
A0606	38.0	16.6
A0607	40.1	17.9
A0608	38.6	10.0
A0609	35.1	11.1
A0610	31.5	23.6
A0701	35.8	24.8
A0702	19.0	27.3
A0703	27.3	24.1
A0704	26.8	10.8
A0705	25.4	17.2

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
A0706	43.6	16.0
A0707	43.8	16.4
A0708	37.3	11.2
A0709	32.7	18.3
A0710	37.2	22.7
A0801	29.9	28.6
A0802	39.1	23.8
A0803	29.8	21.2
A0804	27.0	11.0
A0805	36.4	19.8
A0806	42.3	8.4
A0807	38.8	15.7
A0901	35.3	29.2
A0902	22.7	19.8
A0903	39.1	13.9
A0904	26.7	20.8
A0905	36.4	8.4
A0906	39.1	15.2
A1001	41.6	25.2
A1002	21.9	20.3
A1003	33.9	14.2
A1004	23.9	21.2
A1005	36.6	8.4
A1006	39.3	14.9
A1101	26.2	28.9
A1102	21.7	19.8
A1103	33.7	14.1

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
A1104	23.6	20.7
A1105	39.5	15.1
A1106	36.3	15.1
A1201	26.3	29.0
A1202	21.8	19.5
A1203	33.8	14.0
A1204	23.7	20.6
A1205	36.8	8.7
A1206	39.6	14.8
A1301	41.6	24.1
A1302	22.0	19.3
A1303	34.1	14.2
A1304	23.9	20.4
A1305	35.6	8.5
A1306	38.3	14.7
A1401	26.7	27.3
A1402	22.1	19.3
A1403	34.3	14.3
A1404	23.9	20.7
A1405	36.7	9.0
A1406	39.7	14.8
A1501	43.3	24.1
A1502	26.9	27.7
A1503	35.0	14.7
A1504	24.6	21.3
A1505	36.4	9.7
A1506	39.6	15.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
A1601	35.4	25.0
A1602	29.9	11.4
A1603	32.3	19.1
A1604	42.6	17.3
A1605	41.4	12.1
A1701	29.8	25.1
A1702	27.7	11.3
A1703	29.0	19.2
A1704	41.8	19.7
A1705	36.7	12.0
A1801	30.3	24.8
A1802	28.1	11.6
A1803	29.4	20.3
A1804	41.7	20.9
A1805	36.0	12.3
A1901	38.5	23.5
A1902	31.8	11.0
A1903	32.4	18.3
A1904	38.9	19.0
All other dwellings	45.0	10.6

(b) Common areas and central systems/facilities

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

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

Central systems	Size	Configuration	Connection (to allow for...)
Fire sprinkler system (No. 2)	-	-	-

(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.		✓	✓

(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
L2 - L19 Residential Lobby A	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No
L2 - L18 Residential Lobby B	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): 27
Lift (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 27
Lift (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 26
Lift (No. 4)	gearless traction with V V V F motor	Number of levels (including basement): 26

2. Commitments for Residential flat buildings - Building C

(a) Dwellings

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

Dwelling no.	Fixtures					Appliances		Individual pool				Individual spa		
	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 6 but <= 7.5 L/min)	4 star	5 star	5 star	-	5 star	6 star	-	-	-	-	-	-	-

Dwelling no.	Alternative water source							
	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
None	-	-	-	-	-	-	-	-

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

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

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
C0302, C0402	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
C0306, C0406, C0505, C0605, C0705, C0805, C0905, C1005, C1105, C1205, C1305, C1405, C1505, C1604, C1704, C1804, C1903, C1904, C2003, C2004	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
All other dwellings	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	-	no	3 star	3 star	-	no	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/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
C0301	34.1	20.9
C0302	38.8	9.1
C0303	45.3	15.3
C0304	27.0	21.8
C0305	19.7	26.0
C0306	37.3	12.8
C0307	43.7	23.9
C0308	43.4	18.2
C0309	45.0	18.4
C0310	45.1	18.3
C0311	43.1	16.8
C0401	30.0	22.7
C0402	38.1	9.1
C0403	37.0	19.9
C0404	15.5	21.3
C0405	4.3	29.5
C0406	21.3	19.3
C0501	30.7	19.0
C0502	30.1	22.8
C0503	41.8	8.8
C0504	33.5	13.9
C0505	31.1	27.7
C0506	22.6	20.7
C0601	20.8	19.5
C0602	30.3	22.6
C0603	38.3	8.6
C0604	33.8	13.7

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
C0605	21.9	27.7
C0606	22.0	20.6
C0701	21.0	19.3
C0702	30.5	22.4
C0703	38.5	8.6
C0704	34.0	13.6
C0705	20.3	29.5
C0706	22.4	20.6
C0801	21.3	19.1
C0802	30.7	22.6
C0803	38.6	8.7
C0804	34.3	13.7
C0805	20.6	29.3
C0806	22.7	20.4
C0901	21.5	19.0
C0902	30.8	22.6
C0903	38.8	8.9
C0904	34.5	13.8
C0905	20.9	29.3
C0906	23.0	20.2
C1001	21.7	18.9
C1002	30.9	22.8
C1004	34.8	13.8
C1005	21.2	29.0
C1006	23.4	19.9
C1101	21.9	19.1
C1102	30.8	23.2

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
C1104	34.9	13.7
C1105	21.3	29.1
C1106	23.7	20.0
C1201	22.0	18.7
C1202	30.7	23.6
C1203	38.6	9.4
C1204	34.5	13.7
C1205	21.6	29.1
C1206	23.8	20.0
C1301	22.2	18.5
C1302	30.6	23.6
C1303	38.5	10.0
C1304	34.4	13.4
C1305	21.7	28.7
C1306	24.1	19.8
C1401	22.3	18.2
C1402	30.2	24.7
C1403	38.2	9.9
C1404	34.3	13.1
C1405	22.0	29.1
C1406	24.2	19.6
C1501	28.7	29.3
C1502	38.1	24.5
C1503	38.2	10.8
C1504	34.7	13.7
C1505	22.3	28.3
C1506	24.4	19.5

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
C1601	37.4	14.8
C1602	41.9	16.3
C1603	27.9	12.3
C1604	22.3	27.9
C1605	24.1	19.4
C1701	30.5	14.8
C1702	33.5	19.6
C1703	22.6	14.0
C1704	22.4	28.3
C1705	23.7	19.5
C1801	29.8	14.5
C1802	29.2	23.9
C1803	21.1	15.8
C1804	22.5	28.1
C1805	23.4	19.5
C1901	29.5	14.7
C1902	26.5	26.7
C1903	20.1	16.5
C1904	22.7	27.8
C1905	24.1	19.5
C2001	38.8	13.9
C2002	31.8	25.7
C2003	28.3	15.9
C2004	28.2	25.7
C2005	33.1	17.9
All other dwellings	38.9	9.3

(b) Common areas and central systems/facilities

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

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

Central systems	Size	Configuration	Connection (to allow for...)
Fire sprinkler system (No. 3)	-	-	-

(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.		✓	✓

(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
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
L2 Community Space	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
L2 Strata Manager Office	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
L2 Community WC	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
L2 - L20 Residential Lobby C	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No
L2 - L19 Residential Lobby D	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): 28
Lift (No. 6)	gearless traction with V V V F motor	Number of levels (including basement): 28
Lift (No. 7)	gearless traction with V V V F motor	Number of levels (including basement): 27

Central energy systems	Type	Specification
Lift (No. 8)	gearless traction with V V V F motor	Number of levels (including basement): 27

3. Commitments for Residential flat buildings - Building B

(a) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 6 but <= 7.5 L/min)	4 star	5 star	5 star	-	5 star	6 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
None	-	-	-	-	-	-	-	-

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

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

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
B0204	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
B0201, B0202, B0205, B0301, B0302, B0304, B0401, B0402, B0404, B0501, B0502, B0504, B0601, B0602, B0604, B0701, B0702, B0704, B0801, B0901, B1001	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
All other dwellings	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	-	no	3 star	3 star	-	no	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/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
B0201	25.2	21.6
B0202	28.0	28.2
B0203	41.0	16.3
B0204	34.4	9.7
B0205	42.6	23.1
B0206	34.3	24.9
B0301	24.5	21.4
B0302	27.8	28.7
B0303	39.8	17.6
B0304	34.1	12.4
B0305	31.4	11.5
B0306	37.8	14.2
B0307	26.6	24.8
B0401	25.0	21.0
B0402	28.2	28.3
B0403	40.3	17.3
B0404	34.6	12.3
B0405	30.7	11.8
B0406	36.0	14.4
B0407	26.9	24.4
B0501	25.4	20.2
B0502	28.6	27.6
B0503	40.7	17.7
B0504	35.0	12.2
B0505	31.1	11.5
B0506	36.5	14.4
B0507	27.3	23.5

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
B0601	25.9	19.5
B0602	29.1	27.4
B0603	41.2	17.5
B0604	35.4	12.0
B0605	31.4	11.7
B0606	36.9	14.3
B0607	27.6	23.1
B0701	27.0	19.5
B0702	34.4	24.9
B0703	43.4	20.1
B0704	36.7	15.0
B0705	32.3	12.2
B0706	36.4	14.5
B0707	28.4	22.5
B0801	24.9	18.9
B0802	42.1	17.8
B0803	44.9	11.4
B0804	32.4	12.6
B0805	36.6	14.5
B0806	28.7	23.3
B0901	24.3	19.5
B0902	22.9	18.6
B0903	37.3	11.8
B0904	31.7	13.0
B0905	37.3	14.7
B0906	28.4	22.2
B1001	25.9	24.9

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
B1002	27.8	23.1
B1003	41.2	15.6
B1004	32.3	13.6
B1005	36.7	15.1
B1006	29.1	22.0
B1101	28.9	25.6
B1102	35.3	25.8
B1103	29.8	13.2
B1104	37.3	15.3
B1105	28.9	22.2
B1201	26.1	25.4
B1202	30.4	26.0
B1203	28.7	13.3
B1204	36.6	15.6
B1205	29.0	21.0
B1301	26.4	24.8
B1302	29.9	26.4
B1303	26.7	13.5
B1304	35.6	16.1
B1305	29.2	21.3
B1401	26.5	24.9
B1402	29.2	26.5
B1403	25.1	14.7
B1404	35.3	17.3
B1405	29.3	21.4
B1501	26.7	24.3
B1502	28.0	26.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
B1503	24.5	16.1
B1504	34.9	17.7
B1505	29.4	20.7
B1601	26.7	24.5
B1602	26.4	26.3
B1603	22.5	17.7
B1604	32.7	19.2
B1605	29.5	21.5
B1701	26.7	24.4
B1702	24.7	26.3
B1703	19.7	18.9
B1704	31.1	19.3
B1705	29.5	21.3
B1801	35.7	22.5
B1802	29.7	24.5
B1803	27.3	18.1
B1804	38.8	18.6
All other dwellings	37.1	19.4

(b) Common areas and central systems/facilities

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

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

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

4. Commitments for Residential flat buildings - Building D

(a) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 6 but <= 7.5 L/min)	4 star	5 star	5 star	-	5 star	6 star	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
None	-	-	-	-	-	-	-	-

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

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

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
D0303, D0304, D0403, D0404, D0503, D0504, D0603, D0604, D0703, D0704, D0803, D0804, D0903, D0904, D1003, D1004, D1103, D1104, D1203, D1204, D1303, D1304, D1403, D1404, D1503, D1504	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
All other dwellings	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	3-phase airconditioning EER 3.5 - 4.0	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	-	no	3 star	3 star	-	no	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/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
D0301	12.7	26.0
D0302	42.7	21.0
D0303	37.8	21.0
D0305	32.5	25.3
D0401	24.0	23.3
D0402	28.0	17.8
D0403	37.3	13.5
D0404	43.5	20.4
D0405	30.9	26.4
D0501	38.5	23.2
D0502	27.8	17.7
D0503	37.8	13.2
D0504	43.1	20.2
D0505	30.2	26.6
D0506	36.7	25.0
D0601	38.2	23.0
D0602	28.0	17.9
D0603	38.1	13.0
D0604	43.3	20.4
D0605	30.4	26.7
D0606	18.0	26.8
D0701	38.6	22.9
D0702	28.2	17.6
D0703	38.3	13.4
D0704	43.6	20.6
D0705	30.6	26.5
D0706	18.2	26.5

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
D0801	38.9	22.6
D0802	28.3	17.9
D0803	38.6	13.8
D0804	43.8	20.8
D0805	30.8	27.1
D0806	18.5	26.7
D0901	39.3	22.5
D0902	28.5	18.0
D0903	38.7	14.3
D0904	43.8	22.3
D0906	18.7	26.7
D1001	39.7	22.1
D1002	28.6	18.1
D1003	38.8	15.3
D1004	44.0	22.5
D1005	31.0	26.9
D1006	18.9	26.2
D1101	40.1	22.0
D1102	28.4	18.4
D1103	38.7	15.3
D1104	43.9	22.7
D1106	19.2	25.8
D1201	40.3	21.7
D1202	27.4	18.9
D1203	38.2	16.5
D1204	43.4	23.9
D1205	30.5	28.2

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
D1206	19.2	25.7
D1301	40.6	21.7
D1302	26.9	20.3
D1303	37.0	16.8
D1304	42.7	25.5
D1305	30.4	28.7
D1306	19.4	26.0
D1401	40.8	21.6
D1402	26.2	21.0
D1403	35.4	17.1
D1404	41.4	26.2
D1405	30.4	29.3
D1406	19.4	25.7
D1501	41.2	21.5
D1502	25.4	21.0
D1503	33.3	18.2
D1504	41.4	29.3
D1505	39.1	26.5
D1506	19.5	25.6
D1601	25.6	25.7
D1602	25.0	21.6
D1604	37.0	22.6
D1605	19.4	25.4
D1701	25.7	25.8
D1702	23.8	21.5
D1703	23.6	19.5
D1704	20.0	23.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
D1705	19.2	25.2
D1801	25.8	25.9
D1802	23.5	21.7
D1803	22.8	19.9
D1804	17.4	24.2
D1805	18.8	25.1
D1901	34.5	23.3
D1902	29.5	18.5
D1903	28.1	19.0
D1904	22.8	22.7
D1905	27.1	23.4
D0304, D1603	35.2	18.2
All other dwellings	30.9	27.4

(b) Common areas and central systems/facilities

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

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

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

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

(b) Common areas and central systems/facilities

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

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

Central systems	Size	Configuration	Connection (to allow for...)
Central water tank - rainwater or stormwater (No. 1)	10000.0	To collect run-off from at least: - 500.0 square metres of roof area of buildings in the development - 0.0 square metres of impervious area in the development - 0.0 square metres of garden/lawn area in the development - 0.0 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system).	- irrigation of 3250.0 square metres of common landscaped area on the site
Fire sprinkler system (No. 1)	-	-	-

Central systems	Size	Configuration	Connection (to allow for...)
Fire sprinkler system (No. 4)	-	-	-

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

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Basement Carparks	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	No
Loading Dock	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	time clock and motion sensors	No
B2 Main Comms	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
B1 Switch Rooms	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
B1 Comms Room 2	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
B5 Garbage Rooms	ventilation exhaust only	-	light-emitting diode	manual on / manual off	No
B4 Garbage Rooms	ventilation exhaust only	-	light-emitting diode	manual on / manual off	No
L1 Bulky Goods	ventilation exhaust only	-	light-emitting diode	manual on / manual off	No
L1 Residential Waste	ventilation exhaust only	-	light-emitting diode	manual on / manual off	No
L1 Community Space	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
UL Master Gas Meter	no mechanical ventilation	-	light-emitting diode	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
UL Mech Supply Plant	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
UL Remote Water Master Meters	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
UL FCR	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
UL Master Gas Meter Rooms	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
L1 Substation	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
L1 SP Fan Room	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
L1 Hot Water Plant	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
L1 Cold Water	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
GL Combined Fire Hyd & Sprinkler Pump	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
GL Mech Supply Plant	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
GL SP Plant	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
GL BOH	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
B3-B1 Grease Trap Rooms	ventilation exhaust only	none ie. continuous	light-emitting diode	manual on / manual off	No
B3 Art Work Plant Room	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
B6 to B1 Mech Intake Plant Rooms	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
B2 Art Work Tank Plantroom	no mechanical ventilation	-	light-emitting diode	manual on / manual off	No
B6 to B1 Mech Exhaust Plant Rooms	ventilation exhaust only	none ie. continuous	light-emitting diode	manual on / manual off	No
B1 SP Plant	ventilation supply only	none ie. continuous	light-emitting diode	manual on / manual off	No
L1 Dock Manager	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
L1 Amenity Toilets	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
B1 EOT Facilities inc. ACC	ventilation exhaust only	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
B3 Storage Room	no mechanical ventilation	-	light-emitting diode	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
B3 Carwash Station Kiosk	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
UL Residential Lobby A	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No
GL Residential Lobby B	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No
UL Residential Lobby C	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	No
GL Residential Lobby D	no mechanical ventilation	-	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)
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 180.0 peak kW

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).