

BASIX™ Certificate

Building Sustainability Index

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Multi Dwelling

Certificate number: 1778838M_02

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

This certificate is a revision of certificate number 1778838M submitted to the consent authority or certifier on 23 December 2024 with application 1800DA890.

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

Secretary

Date of issue: Friday, 15 August 2025

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



When submitting this BASIX certificate with a development application or complying development certificate application, it must be accompanied by NatHERS certificate J2L2JUCBDO.

Project summary

Project name	The Timberyards by RTL Co._02
Street address	MULTIPLE LOTS MULTIPLE LOTS BOUND BY VICTORIA ROAD, SYDENHAM ROAD, FARR STREET AND MITCHELL STREET MARRICKVILLE 2204
Local Government Area	INNER WEST
Plan type and plan number	Strata Plan DP587262
Lot no.	345
Section no.	--
No. of residential flat buildings	5
Residential flat buildings: no. of dwellings	599
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0

Project score

Water	✓ 41	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 63	Target 60
Materials	✓ -100	Target n/a

Certificate Prepared by

Name / Company Name: Atelier Ten

ABN (if applicable):

Description of project

Project address	
Project name	The Timberyards by RTL Co._02
Street address	MULTIPLE LOTS MULTIPLE LOTS BOUND BY VICTORIA ROAD, SYDENHAM ROAD, FARR STREET AND MITCHELL STREET MARRICKVILLE 2204
Local Government Area	INNER WEST
Plan type and plan number	Strata Plan DP587262
Lot no.	345
Section no.	--
Project type	
No. of residential flat buildings	5
Residential flat buildings: no. of dwellings	599
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m²)	22771
Roof area (m²)	3516
Non-residential floor area (m²)	5567
Residential car spaces	157
Non-residential car spaces	92

Common area landscape		
Common area lawn (m²)	136	
Common area garden (m²)	2573	
Area of indigenous or low water use species (m²)	1308	
Assessor details and thermal loads		
Assessor number	DMN/20/1972	
Certificate number	J2L2JUCBDO	
Climate zone	56	
Project score		
Water	✓ 41	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 63	Target 60
Materials	✓ -100	Target n/a

Description of project

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

Residential flat buildings - Apartment A, 110 dwellings, 8 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)
A1.01.02	75.13	0	0	0	
A1.01.05	53.4	0	0	0	
A1.01.09	94.06	0	0	0	
A1.02.02	51.64	0	0	0	
A1.03.03	53.6	0	0	0	
A1.03.02	92.6	0	0	0	
A1.03.12	92.6	0	0	0	
A1.04.03	53.73	0	0	0	
A1.04.02	87.2	0	0	0	
A1.04.12	87.2	0	0	0	
A1.06.02	75.13	0	0	0	
A1.06.03	101.44	0	0	0	
A1.07.02	75.86	0	0	0	
A1.07.06	49.91	0	0	0	
A2.01.01	53.73	0	0	0	
A2.01.08	94.12	0	0	0	
A2.01.09	94.06	0	0	0	
A2.02.01	53.73	0	0	0	
A2.03.02	53.6	0	0	0	
A2.03.08	92.6	0	0	0	
A2.03.10	53.4	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A1.01.02	51.64	0	0	0	
A1.01.06	53.4	0	0	0	
A1.01.10	94.06	0	0	0	
A1.02.03	53.73	0	0	0	
A1.03.04	53.4	0	0	0	
A1.03.08	92.6	0	0	0	
A1.03.12	92.6	0	0	0	
A1.04.04	53.4	0	0	0	
A1.04.08	87.2	0	0	0	
A1.04.12	87.2	0	0	0	
A1.06.02	75.86	0	0	0	
A1.06.06	49.91	0	0	0	
A1.07.03	35.62	0	0	0	
A1.07.07	49.91	0	0	0	
A2.01.02	53.73	0	0	0	
A2.01.08	94.06	0	0	0	
A2.01.10	53.4	0	0	0	
A2.02.02	53.73	0	0	0	
A2.03.03	75.13	0	0	0	
A2.03.02	92.6	0	0	0	
A2.03.11	53.4	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A1.01.03	53.73	0	0	0	
A1.01.02	94.06	0	0	0	
A1.01.11	53.4	0	0	0	
A1.03.02	75.13	0	0	0	
A1.03.05	53.4	0	0	0	
A1.03.09	92.6	0	0	0	
A1.04.02	75.13	0	0	0	
A1.04.05	53.4	0	0	0	
A1.04.09	87.2	0	0	0	
A1.05.02	75.13	0	0	0	
A1.06.03	35.62	0	0	0	
A1.06.07	49.91	0	0	0	
A1.07.04	35.62	0	0	0	
A1.UG.01	75.13	0	0	0	
A2.01.02	75.13	0	0	0	
A2.01.02	94.06	0	0	0	
A2.01.11	53.4	0	0	0	
A2.02.03	75.13	0	0	0	
A2.03.02	92.6	0	0	0	
A2.03.08	92.6	0	0	0	
A2.03.12	53.4	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
A1.01.04	53.4	0	0	0	
A1.01.08	94.06	0	0	0	
A1.02.02	75.13	0	0	0	
A1.03.02	51.64	0	0	0	
A1.03.06	53.4	0	0	0	
A1.03.10	92.6	0	0	0	
A1.04.02	51.64	0	0	0	
A1.04.06	53.4	0	0	0	
A1.04.10	87.2	0	0	0	
A1.05.02	75.86	0	0	0	
A1.06.04	35.62	0	0	0	
A1.07.02	75.13	0	0	0	
A1.07.05	101.44	0	0	0	
A1.UG.02	82.77	0	0	0	
A2.01.02	94.06	0	0	0	
A2.01.08	94.06	0	0	0	
A2.01.12	53.4	0	0	0	
A2.03.01	53.6	0	0	0	
A2.03.03	92.6	0	0	0	
A2.03.09	92.6	0	0	0	
A2.04.01	53.73	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
A2.04.02	53.73	0	0	0	0
A2.04.08	87.2	0	0	0	0
A2.04.10	53.4	0	0	0	0
A2.05.02	75.13	0	0	0	0
A2.06.04	49.91	0	0	0	0
A2.07.01	49.91	0	0	0	0
A2.07.05	35.62	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
A2.04.02	75.13	0	0	0	0
A2.04.07	87.2	0	0	0	0
A2.04.11	53.4	0	0	0	0
A2.06.02	78.75	0	0	0	0
A2.06.05	101.44	0	0	0	0
A2.07.02	49.91	0	0	0	0
A2.UG.01	53.2	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
A2.04.02	87.2	0	0	0	0
A2.04.08	87.2	0	0	0	0
A2.04.12	53.4	0	0	0	0
A2.06.02	75.13	0	0	0	0
A2.06.06	35.62	0	0	0	0
A2.07.03	101.44	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
A2.04.02	87.2	0	0	0	0
A2.04.09	87.2	0	0	0	0
A2.05.02	78.75	0	0	0	0
A2.06.03	49.91	0	0	0	0
A2.06.07	35.62	0	0	0	0
A2.07.04	35.62	0	0	0	0

Residential flat buildings - Apartment B, 273 dwellings, 11 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B1.01.03	95.45	0	0	0	0
B1.02.03	34.52	0	0	0	0
B1.02.07	34.52	0	0	0	0
B1.02.12	84.6	0	0	0	0
B1.03.03	95.56	0	0	0	0
B1.04.03	34.52	0	0	0	0
B1.04.07	34.52	0	0	0	0
B1.04.12	84.6	0	0	0	0
B1.05.03	95.56	0	0	0	0
B1.06.03	34.52	0	0	0	0
B1.06.07	34.52	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B1.01.02	75.65	0	0	0	0
B1.02.04	34.52	0	0	0	0
B1.02.08	34.52	0	0	0	0
B1.02.12	84.6	0	0	0	0
B1.03.02	75.34	0	0	0	0
B1.04.04	34.52	0	0	0	0
B1.04.08	34.52	0	0	0	0
B1.04.12	84.6	0	0	0	0
B1.05.02	75.33	0	0	0	0
B1.06.04	34.52	0	0	0	0
B1.06.08	34.52	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B1.02.03	95.45	0	0	0	0
B1.02.05	34.52	0	0	0	0
B1.02.09	84.6	0	0	0	0
B1.02.12	84.6	0	0	0	0
B1.04.03	95.56	0	0	0	0
B1.04.05	34.52	0	0	0	0
B1.04.09	84.6	0	0	0	0
B1.04.12	84.6	0	0	0	0
B1.06.03	95.56	0	0	0	0
B1.06.05	34.52	0	0	0	0
B1.06.09	39.23	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B1.02.02	75.33	0	0	0	0
B1.02.06	34.52	0	0	0	0
B1.02.10	84.6	0	0	0	0
B1.02.12	84.6	0	0	0	0
B1.04.02	75.65	0	0	0	0
B1.04.06	34.52	0	0	0	0
B1.04.10	84.6	0	0	0	0
B1.04.12	84.6	0	0	0	0
B1.06.02	75.33	0	0	0	0
B1.06.06	34.52	0	0	0	0
B1.06.10	39.23	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B1.06.11	39.24	0	0	0	
B1.07.04	34.52	0	0	0	
B1.07.08	39.23	0	0	0	
B1.UG.02	75.65	0	0	0	
B1.UG.06	135.09	0	0	0	
B2.01.03	34.52	0	0	0	
B2.02.03	34.52	0	0	0	
B2.02.02	77.67	0	0	0	
B2.02.13	92.6	0	0	0	
B2.03.02	34.52	0	0	0	
B2.04.03	34.52	0	0	0	
B2.04.02	77.67	0	0	0	
B2.04.13	92.6	0	0	0	
B2.05.02	34.54	0	0	0	
B2.06.03	34.52	0	0	0	
B2.06.09	92.6	0	0	0	
B2.06.13	53.4	0	0	0	
B2.07.03	34.52	0	0	0	
B2.08.01	34.52	0	0	0	
B2.08.11	53.4	0	0	0	
B2.09.10	53.4	0	0	0	
B2.UG.01	92.6	0	0	0	
B2.UG.05	53.4	0	0	0	
B3.01.03	74.71	0	0	0	
B3.02.08	53.4	0	0	0	
B3.02.12	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B1.07.03	94.55	0	0	0	
B1.07.05	34.52	0	0	0	
B1.07.09	39.23	0	0	0	
B1.UG.03	135.17	0	0	0	
B1.UG.07	135.17	0	0	0	
B2.01.02	77.67	0	0	0	
B2.02.04	34.52	0	0	0	
B2.02.10	92.6	0	0	0	
B2.02.14	53.4	0	0	0	
B2.03.03	77.67	0	0	0	
B2.04.04	34.52	0	0	0	
B2.04.10	92.6	0	0	0	
B2.04.14	53.4	0	0	0	
B2.05.03	77.58	0	0	0	
B2.06.04	34.52	0	0	0	
B2.06.10	92.6	0	0	0	
B2.06.14	53.4	0	0	0	
B2.07.04	34.52	0	0	0	
B2.08.02	34.52	0	0	0	
B2.09.01	34.54	0	0	0	
B2.09.11	53.4	0	0	0	
B2.UG.02	92.6	0	0	0	
B2.UG.06	53.4	0	0	0	
B3.02.03	74.71	0	0	0	
B3.02.09	53.4	0	0	0	
B3.02.13	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B1.07.02	34.52	0	0	0	
B1.07.06	34.52	0	0	0	
B1.07.10	39.24	0	0	0	
B1.UG.04	135.09	0	0	0	
B2.01.01	34.52	0	0	0	
B2.02.02	84.6	0	0	0	
B2.02.05	34.51	0	0	0	
B2.02.12	92.6	0	0	0	
B2.02.15	53.4	0	0	0	
B2.04.02	84.6	0	0	0	
B2.04.05	34.52	0	0	0	
B2.04.12	92.6	0	0	0	
B2.04.15	53.4	0	0	0	
B2.06.01	39.23	0	0	0	
B2.06.05	34.52	0	0	0	
B2.06.12	92.6	0	0	0	
B2.07.01	39.23	0	0	0	
B2.07.05	34.52	0	0	0	
B2.08.02	77.67	0	0	0	
B2.09.02	34.54	0	0	0	
B2.10.05	53.4	0	0	0	
B2.UG.03	92.6	0	0	0	
B2.UG.08	135.17	0	0	0	
B3.02.06	53.4	0	0	0	
B3.02.10	92.6	0	0	0	
B3.02.12	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B1.07.03	34.52	0	0	0	
B1.07.07	34.52	0	0	0	
B1.UG.01	74.22	0	0	0	
B1.UG.05	135.17	0	0	0	
B2.01.02	34.52	0	0	0	
B2.02.02	84.6	0	0	0	
B2.02.06	34.51	0	0	0	
B2.02.12	92.6	0	0	0	
B2.03.01	34.52	0	0	0	
B2.04.02	84.6	0	0	0	
B2.04.06	34.52	0	0	0	
B2.04.12	92.6	0	0	0	
B2.05.01	34.56	0	0	0	
B2.06.02	34.52	0	0	0	
B2.06.08	77.67	0	0	0	
B2.06.12	92.6	0	0	0	
B2.07.02	34.52	0	0	0	
B2.07.08	77.67	0	0	0	
B2.08.10	53.4	0	0	0	
B2.09.03	77.67	0	0	0	
B2.10.06	53.4	0	0	0	
B2.UG.04	92.6	0	0	0	
B2.UG.09	135.09	0	0	0	
B3.02.07	53.4	0	0	0	
B3.02.12	92.6	0	0	0	
B3.03.03	74.71	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B3.04.02	74.71	0	0	0	
B3.04.09	53.4	0	0	0	
B3.04.12	92.6	0	0	0	
B3.06.02	74.71	0	0	0	
B3.06.09	53.4	0	0	0	
B3.06.12	92.6	0	0	0	
B3.08.02	74.71	0	0	0	
B3.08.09	53.4	0	0	0	
B3.09.09	53.4	0	0	0	
B3.10.09	53.4	0	0	0	
B3.11.09	49.51	0	0	0	
B3.11.13	49.51	0	0	0	
B3.UG.08	92.6	0	0	0	
B3.UG.12	92.58	0	0	0	
B4.02.02	95.8	0	0	0	
B4.02.08	92.6	0	0	0	
B4.02.10	92.6	0	0	0	
B4.04.02	75.23	0	0	0	
B4.04.05	53.4	0	0	0	
B4.04.09	92.6	0	0	0	
B4.05.02	95.59	0	0	0	
B4.06.04	53.4	0	0	0	
B4.06.08	92.6	0	0	0	
B4.07.02	75.66	0	0	0	
B4.08.03	53.4	0	0	0	
B4.08.02	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B3.04.08	92.6	0	0	0	
B3.04.10	53.4	0	0	0	
B3.04.14	92.6	0	0	0	
B3.06.08	92.6	0	0	0	
B3.06.10	53.4	0	0	0	
B3.06.14	92.6	0	0	0	
B3.08.08	92.6	0	0	0	
B3.08.10	53.4	0	0	0	
B3.09.10	53.4	0	0	0	
B3.10.10	53.4	0	0	0	
B3.11.10	49.51	0	0	0	
B3.UG.03	74.71	0	0	0	
B3.UG.09	92.6	0	0	0	
B4.01.02	75.51	0	0	0	
B4.02.03	53.4	0	0	0	
B4.02.02	92.6	0	0	0	
B4.02.12	92.6	0	0	0	
B4.04.03	95.51	0	0	0	
B4.04.08	92.6	0	0	0	
B4.04.10	92.6	0	0	0	
B4.06.02	75.68	0	0	0	
B4.06.05	53.4	0	0	0	
B4.06.09	92.6	0	0	0	
B4.07.03	95.8	0	0	0	
B4.08.04	53.4	0	0	0	
B4.08.08	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B3.04.02	92.6	0	0	0	
B3.04.12	92.6	0	0	0	
B3.04.15	92.6	0	0	0	
B3.06.02	92.6	0	0	0	
B3.06.12	92.6	0	0	0	
B3.06.15	92.6	0	0	0	
B3.08.02	92.6	0	0	0	
B3.09.02	74.71	0	0	0	
B3.10.02	74.71	0	0	0	
B3.11.02	74.71	0	0	0	
B3.11.11	49.51	0	0	0	
B3.UG.06	53.4	0	0	0	
B3.UG.10	92.6	0	0	0	
B4.01.02	95.59	0	0	0	
B4.02.04	53.4	0	0	0	
B4.02.08	92.6	0	0	0	
B4.03.02	75.83	0	0	0	
B4.04.03	53.4	0	0	0	
B4.04.02	92.6	0	0	0	
B4.04.12	92.6	0	0	0	
B4.06.02	95.79	0	0	0	
B4.06.08	92.6	0	0	0	
B4.06.10	92.6	0	0	0	
B4.08.02	75.59	0	0	0	
B4.08.05	53.4	0	0	0	
B4.08.09	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B3.04.08	53.4	0	0	0	
B3.04.12	92.6	0	0	0	
B3.05.02	74.71	0	0	0	
B3.06.08	53.4	0	0	0	
B3.06.12	92.6	0	0	0	
B3.07.02	74.92	0	0	0	
B3.08.08	53.4	0	0	0	
B3.09.08	53.4	0	0	0	
B3.10.08	53.4	0	0	0	
B3.11.08	49.51	0	0	0	
B3.11.12	49.51	0	0	0	
B3.UG.07	53.4	0	0	0	
B3.UG.11	92.6	0	0	0	
B4.02.02	75.59	0	0	0	
B4.02.05	53.4	0	0	0	
B4.02.09	92.6	0	0	0	
B4.03.03	95.8	0	0	0	
B4.04.04	53.4	0	0	0	
B4.04.08	92.6	0	0	0	
B4.05.02	75.71	0	0	0	
B4.06.03	53.4	0	0	0	
B4.06.02	92.6	0	0	0	
B4.06.12	92.6	0	0	0	
B4.08.03	95.59	0	0	0	
B4.08.08	92.6	0	0	0	
B4.08.10	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B4.08.12	92.6	0	0	0	0
B4.09.04	53.4	0	0	0	0
B4.10.03	53.4	0	0	0	0
B4.11.03	95.8	0	0	0	0
B4.11.06	49.51	0	0	0	0
B4.UG.02	95.8	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B4.09.02	75.75	0	0	0	0
B4.09.05	53.4	0	0	0	0
B4.10.04	53.4	0	0	0	0
B4.11.03	49.51	0	0	0	0
B4.11.07	49.51	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B4.09.03	95.6	0	0	0	0
B4.10.02	75.42	0	0	0	0
B4.10.05	53.4	0	0	0	0
B4.11.04	49.51	0	0	0	0
B4.11.08	49.51	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
B4.09.03	53.4	0	0	0	0
B4.10.02	95.51	0	0	0	0
B4.11.02	75.59	0	0	0	0
B4.11.05	49.51	0	0	0	0
B4.UG.01	75.66	0	0	0	0

Residential flat buildings - Apartment E, 108 dwellings, 11 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
E1.01.02	75	0	0	0	0
E1.02.02	92.6	0	0	0	0
E1.02.08	54.99	0	0	0	0
E1.04.02	75.07	0	0	0	0
E1.05.02	75.07	0	0	0	0
E1.06.02	75.07	0	0	0	0
E1.07.02	75.07	0	0	0	0
E1.08.02	74.69	0	0	0	0
E1.09.02	75.07	0	0	0	0
E1.10.05	54.88	0	0	0	0
E1.G.01	35.02	0	0	0	0
E1.UG.01	92.6	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
E1.01.03	75.16	0	0	0	0
E1.02.03	92.6	0	0	0	0
E1.02.09	54.99	0	0	0	0
E1.04.03	75.02	0	0	0	0
E1.05.03	75.02	0	0	0	0
E1.06.03	75.02	0	0	0	0
E1.07.03	75.02	0	0	0	0
E1.08.03	75.02	0	0	0	0
E1.09.03	75.02	0	0	0	0
E1.10.06	54.88	0	0	0	0
E1.G.02	35.05	0	0	0	0
E1.UG.02	92.6	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
E1.02.02	75.07	0	0	0	0
E1.02.03	92.6	0	0	0	0
E1.03.02	75.07	0	0	0	0
E1.04.03	54.99	0	0	0	0
E1.05.03	54.99	0	0	0	0
E1.06.03	54.99	0	0	0	0
E1.07.03	54.99	0	0	0	0
E1.08.03	54.99	0	0	0	0
E1.09.03	54.99	0	0	0	0
E1.11.05	54.88	0	0	0	0
E1.G.03	35.04	0	0	0	0
E1.UG.03	92.6	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
E1.02.03	75.02	0	0	0	0
E1.02.02	92.6	0	0	0	0
E1.03.03	75.02	0	0	0	0
E1.04.04	54.99	0	0	0	0
E1.05.04	54.99	0	0	0	0
E1.06.04	54.99	0	0	0	0
E1.07.04	54.99	0	0	0	0
E1.08.04	54.99	0	0	0	0
E1.09.04	54.99	0	0	0	0
E1.11.06	54.88	0	0	0	0
E1.G.04	35.04	0	0	0	0
E1.UG.04	92.6	0	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
E2.01.02	75.13	0	0	0	
E2.02.04	54.99	0	0	0	
E2.02.08	92.6	0	0	0	
E2.04.02	75.19	0	0	0	
E2.05.02	75.16	0	0	0	
E2.06.02	75.19	0	0	0	
E2.07.02	75.19	0	0	0	
E2.08.02	75.19	0	0	0	
E2.09.02	75.19	0	0	0	
E2.10.02	76.2	0	0	0	
E2.11.02	75.19	0	0	0	
E2.11.06	49.51	0	0	0	
E2.11.10	49.51	0	0	0	
E2.G.031	35.04	0	0	0	
E2.UG.04	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
E2.01.02	75.06	0	0	0	
E2.02.05	54.99	0	0	0	
E2.02.09	92.6	0	0	0	
E2.04.02	75.06	0	0	0	
E2.05.02	75.06	0	0	0	
E2.06.02	75.06	0	0	0	
E2.07.02	75.06	0	0	0	
E2.08.02	75.06	0	0	0	
E2.09.02	75.06	0	0	0	
E2.10.02	75.1	0	0	0	
E2.11.02	75.09	0	0	0	
E2.11.07	49.5	0	0	0	
E2.11.11	49.51	0	0	0	
E2.G.041	35.04	0	0	0	
E2.UG.05	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
E2.02.02	75.13	0	0	0	
E2.02.08	92.6	0	0	0	
E2.03.02	75.19	0	0	0	
E2.04.04	54.99	0	0	0	
E2.05.04	54.99	0	0	0	
E2.06.04	54.99	0	0	0	
E2.07.04	54.99	0	0	0	
E2.08.04	54.99	0	0	0	
E2.09.04	54.99	0	0	0	
E2.10.04	54.88	0	0	0	
E2.11.04	49.5	0	0	0	
E2.11.08	49.51	0	0	0	
E2.G.011	35.04	0	0	0	
E2.UG.021	75.22	0	0	0	
E2.UG.06	92.6	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
E2.02.02	75.09	0	0	0	
E2.02.07	92.6	0	0	0	
E2.03.02	75.06	0	0	0	
E2.04.05	54.99	0	0	0	
E2.05.05	54.99	0	0	0	
E2.06.05	54.99	0	0	0	
E2.07.05	54.99	0	0	0	
E2.08.05	54.99	0	0	0	
E2.09.05	54.99	0	0	0	
E2.10.05	54.88	0	0	0	
E2.11.05	49.51	0	0	0	
E2.11.09	49.51	0	0	0	
E2.G.021	35.31	0	0	0	
E2.UG.022	75.1	0	0	0	
E2.UG.07	92.6	0	0	0	

Residential flat buildings - Apartment F, 42 dwellings, 6 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
F.01.012	78.98	0	0	0	
F.01.051	50.28	0	0	0	
F.02.031	52.72	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
F.01.022	74.8	0	0	0	
F.01.061	34.34	0	0	0	
F.02.041	50.28	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
F.01.031	52.72	0	0	0	
F.02.012	78.98	0	0	0	
F.02.051	50.28	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
F.01.041	50.28	0	0	0	
F.02.022	74.8	0	0	0	
F.02.061	34.34	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
F.03.01.2	78.98	0	0	0	
F.03.05.1	50.28	0	0	0	
F.04.03.1	34.54	0	0	0	
F.05.02.2	74.8	0	0	0	
F.06.01.1	52.49	0	0	0	
F.06.05.1	50.35	0	0	0	
F.UG.02	78.98	0	0	0	
F.UG.05	50.28	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
F.03.02.2	74.8	0	0	0	
F.03.06.1	34.34	0	0	0	
F.04.04.2	73.54	0	0	0	
F.05.03.1	34.54	0	0	0	
F.06.02.2	74.8	0	0	0	
F.G.01.1	50.28	0	0	0	
F.UG.02	74.8	0	0	0	
F.UG.06	34.34	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
F.03.03.1	52.72	0	0	0	
F.04.01.1	52.49	0	0	0	
F.04.05.1	50.35	0	0	0	
F.05.04.2	73.54	0	0	0	
F.06.03.1	34.54	0	0	0	
F.G.02.1	50.28	0	0	0	
F.UG.03	52.72	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
F.03.04.1	50.28	0	0	0	
F.04.02.2	74.8	0	0	0	
F.05.01.1	52.49	0	0	0	
F.05.05.1	50.35	0	0	0	
F.06.04.2	73.54	0	0	0	
F.G.03.1	34.34	0	0	0	
F.UG.04	50.28	0	0	0	

Residential flat buildings - Apartment G, 66 dwellings, 6 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
G1.01.02	81.95	0	0	0	
G1.01.05	55.7	0	0	0	
G1.02.04	98.26	0	0	0	
G1.03.04	98.26	0	0	0	
G1.04.04	98.26	0	0	0	
G1.05.04	98.26	0	0	0	
G1.06.04	98.26	0	0	0	
G1.G.04	90.48	0	0	0	
G1.UG.02	74.83	0	0	0	
G2.01.04	55.7	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
G1.01.02	74.83	0	0	0	
G1.02.01	47.49	0	0	0	
G1.03.01	47.49	0	0	0	
G1.04.01	47.49	0	0	0	
G1.05.01	49.79	0	0	0	
G1.06.01	49.79	0	0	0	
G1.G.01	55.23	0	0	0	
G1.G.02	90.48	0	0	0	
G2.01.01	75.48	0	0	0	
G2.01.05	53.4	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
G1.01.03	53.4	0	0	0	
G1.02.02	74.83	0	0	0	
G1.03.02	74.83	0	0	0	
G1.04.02	74.83	0	0	0	
G1.05.02	76.09	0	0	0	
G1.06.02	76.09	0	0	0	
G1.G.02	74.83	0	0	0	
G1.G.03	90.48	0	0	0	
G2.01.02	80	0	0	0	
G2.02.01	35.2	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
G1.01.04	53.4	0	0	0	
G1.02.03	53.34	0	0	0	
G1.03.03	53.34	0	0	0	
G1.04.03	53.34	0	0	0	
G1.05.03	53.34	0	0	0	
G1.06.03	53.34	0	0	0	
G1.G.03	56.11	0	0	0	
G1.UG.01	81.95	0	0	0	
G2.01.03	55.7	0	0	0	
G2.02.02	47.2	0	0	0	

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
G2.02.03	03	98.26	0	0	0
G2.03.03	03	98.26	0	0	0
G2.04.03	03	98.26	0	0	0
G2.05.03	03	98.26	0	0	0
G2.06.03	03	98.26	0	0	0
G2.G.03	03	90.48	0	0	0
G2.UG.01	01	35.2	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
G2.02.04	04	53.34	0	0	0
G2.03.04	04	53.34	0	0	0
G2.04.04	04	53.34	0	0	0
G2.05.04	04	53.34	0	0	0
G2.06.04	04	53.34	0	0	0
G2.G.04	04	90.48	0	0	0
G2.UG.02	02	83.3	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
G2.03.01	01	35.2	0	0	0
G2.04.01	01	35.2	0	0	0
G2.05.01	01	58.4	0	0	0
G2.06.02	02	75.48	0	0	0
G2.G.01	01	75	0	0	0
G2.G.02	02	90.48	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
G2.03.02	02	47.2	0	0	0
G2.04.02	02	47.2	0	0	0
G2.05.02	02	50.73	0	0	0
G2.06.02	02	50.73	0	0	0
G2.G.02	02	54.3	0	0	0
G2.G.06	06	56.11	0	0	0

Description of project

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

Common areas of the development (non-building specific)

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Lift bank (No. 1)	-	Lift bank (No. 2)	-	Lift bank (No. 3)	-
Lift bank (No. 4)	-	Lift bank (No. 5)	-	Undercover Car Park	7385
Lift Rooms	260	Garbage Rooms	1055	BTR Communal Area	1519.35
BTR & Co-Living Communal Areas	813.74	BTR Plant/Service Rooms	5026.41	Shared Plant/Services	124.72
Ground Floor Lobbies	415	Hallway/Lobby Type (No. 1)	11096		

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Apartment A

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for Residential flat buildings - Apartment B

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

3. Commitments for Residential flat buildings - Apartment E

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

- (ii) Energy
- (iii) Thermal Performance

(c) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

4. Commitments for Residential flat buildings - Apartment F

(a) Buildings

- (i) Materials

(b) Dwellings

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

(c) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

5. Commitments for Residential flat buildings - Apartment G

(a) Buildings

- (i) Materials

(b) Dwellings

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

(c) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

6. Commitments for multi-dwelling housing

(a) Dwellings

- (i) Water
- (ii) Energy
- (iii) Thermal Performance and Materials

7. Commitments for single dwelling houses

- (a) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Performance and Materials

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

- (a) Buildings 'Other'
 - (i) Materials
- (b) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy

Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

1. Commitments for Residential flat buildings - Apartment A

(a) Buildings

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

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above garage, frame: suspended concrete slab	7626.66	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	brick veneer, frame: light steel frame	6531.8	-	rockwool batts, roll or pump-in

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame: light steel frame	5686.4	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	100	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
framed - metal roof, frame: light steel frame	3813	foil/sarking	-
framed - concrete tiles, frame: light steel frame	3813	foil/sarking	-

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	2170	-	-	-	-	-	2170

(b) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	6 star	6 star	-	not specified	not specified	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	Central water tank (No. 1)	See central systems	See central systems	yes	yes	no	no	no

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓ ✓	✓
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 1)	individual fan, ducted to façade or roof	interlocked to light with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual on / timer off

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

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	induction cooktop & electric oven	3.5 star	2 star	no	no

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

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
A1.01.01	26.3	9.8	36.100
A1.01.02	7.4	17.1	24.500
A1.01.03	9.6	11.5	21.100
A1.01.04	11.8	13.2	25.000

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adjusted total load (in MJ/m²/yr)
A1.01.05	5.4	14.8	20.200
A1.01.06	5.4	15	20.400
A1.01.07	21.4	6.8	28.200
A1.01.08	21.2	6.7	27.900
A1.01.09	21.1	6.8	27.900
A1.01.10	26.2	7.1	33.300
A1.01.11	28.9	7.8	36.700
A1.02.01	27.7	9.5	37.200
A1.02.02	8.2	16.1	24.300
A1.02.03	7.60	10.7	18.300
A1.03.01	27.80	9.9	37.700
A1.03.02	8.60	15.8	24.400
A1.03.03	7.30	10.9	18.200
A1.03.04	7.70	12.1	19.800
A1.03.07	16.1	12.3	28.400
A1.03.10	16.2	12	28.200
A1.03.11	16.4	12	28.400
A1.03.12	21.1	11.1	32.200
A1.04.01	27.8	8.3	36.100
A1.04.02	14.2	13.9	28.100
A1.04.03	10.8	10.1	20.900
A1.04.04	12	12.2	24.200
A1.04.07	20.1	10.3	30.400
A1.04.08	19.2	9.2	28.400
A1.04.09	19.6	10	29.600
A1.04.10	20.8	10.3	31.100
A1.04.11	20.3	10.3	30.600
A1.04.12	24.5	10	34.500
A1.05.01	28.2	8.2	36.400
A1.05.02	11.4	12.5	23.900
A1.06.01	28.7	8.3	37.000

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
A1.06.02	10	11.9	21.900
A1.06.03	6.4	20.4	26.800
A1.06.04	4.3	20.9	25.200
A1.06.05	9.4	9	18.400
A1.06.06	24	6.3	30.300
A1.06.07	29.2	7.8	37.000
A1.07.01	28.2	9	37.200
A1.07.02	20.2	17.2	37.400
A1.07.03	13.9	19.4	33.300
A1.07.04	11.3	19.9	31.200
A1.07.05	19	11.2	30.200
A1.07.06	29.1	7.5	36.600
A1.07.07	31	6.9	37.900
A1.UG.01	26	7.2	33.200
A1.UG.02	8.4	8.5	16.900
A2.01.01	10.6	14.1	24.700
A2.01.02	5.4	11.8	17.200
A2.01.03	12.20	10.3	22.500
A2.01.04	29.60	6.3	35.900
A2.01.05	23.00	5.9	28.900
A2.01.06	22.40	5.8	28.200
A2.01.07	22.00	5.9	27.900
A2.01.08	21.40	6.8	28.200
A2.01.09	21.7	6.6	28.300
A2.01.10	2.7	13.4	16.100
A2.01.11	2.7	13.6	16.300
A2.01.12	5.4	13.9	19.300
A2.02.01	11.8	13.6	25.400
A2.02.02	5.9	11.5	17.400
A2.02.03	13.5	10	23.500
A2.03.01	12	13.2	25.200

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
A2.03.02	6.2	11.3	17.500
A2.03.03	14.4	9.7	24.100
A2.03.04	20.7	9.4	30.100
A2.03.05	16.9	8.7	25.600
A2.03.06	16.8	8.9	25.700
A2.03.09	16	11.1	27.100
A2.03.10	4.2	9.8	14.000
A2.03.11	4.2	10	14.200
A2.03.12	5.9	12.1	18.000
A2.04.01	16.4	10.8	27.200
A2.04.02	9.5	10.1	19.600
A2.04.03	18.2	8.5	26.700
A2.04.04	23.6	8.9	32.500
A2.04.05	21	8.8	29.800
A2.04.06	19.8	8.6	28.400
A2.04.07	20	9.2	29.200
A2.04.08	18.9	8.8	27.700
A2.04.09	19.7	9.8	29.500
A2.04.10	6	11.9	17.900
A2.04.11	5.9	11.9	17.800
A2.04.12	8.9	11.5	20.400
A2.05.01	7.6	12.4	20.000
A2.05.02	12.3	9.1	21.400
A2.06.01	13.6	14.3	27.900
A2.06.02	18.6	12.6	31.200
A2.06.03	25.1	8.3	33.400
A2.06.04	26.1	7.7	33.800
A2.06.05	11.8	8.8	20.600
A2.06.06	3.2	20.1	23.300
A2.06.07	4.6	20.4	25.000
A2.07.01	30.7	7	37.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
A2.07.02	28.8	8.8	37.600
A2.07.03	19	10.7	29.700
A2.07.04	9	20.9	29.900
A2.07.05	11.4	20.3	31.700
A2.UG.01	11.4	10.8	22.200
A1.03.05, A1.03.06	5.9	12.7	18.600
A1.03.08, A1.03.09	16.1	12.2	28.300
A1.04.05, A1.04.06	9.4	12.6	22.000
All other dwellings	16.1	10.3	26.400

(c) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	4 star (> 6 but <= 7.5 L/min)	4 star	6 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.	✓	✓	✓

2. Commitments for Residential flat buildings - Apartment B

(a) Buildings

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

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above garage, frame: suspended concrete slab	18831.17	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (metal clad), frame: light steel frame	10902.4	-	rockwool batts, roll or pump-in

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame: light steel frame	15866.3	-

Reinforcement concrete frames/columns

Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	100	-

Ceiling and roof types

Ceiling and roof type	Area (m ²)	Roof Insulation	Ceiling Insulation
concrete - bare internal, frame: light steel frame	18830.5	foil backed blanket	-

Glazing types**Frame types**

Single glazing (m ²)	Double glazing (m ²)	Triple glazing (m ²)	Aluminium frames (m ²)	Timber frames (m ²)	uPVC frames (m ²)	Steel frames (m ²)	Composite frames (m ²)
-	4313.25	-	-	-	-	-	4313.25

(b) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	6 star	6 star	-	not specified	not specified	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	Central water tank (No. 1)	See central systems	See central systems	yes	yes	no	no	no

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓ ✓	✓
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 2)	individual fan, ducted to façade or roof	interlocked to light with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual on / timer off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	Central cooling system (No. 1)	Central cooling system (No. 1)	Central heating system (No. 1)	Central heating system (No. 1)	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	induction cooktop & electric oven	3.5 star	2 star	no	no

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

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
B1.01.01	12.30	11.3	23.600
B1.01.02	3.8	8.6	12.400
B1.02.01	11.9	11.3	23.200
B1.02.02	4.10	8.6	12.700

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
B1.02.03	4.3	14.3	18.600
B1.02.04	0.9	15.7	16.600
B1.02.05	1	15.9	16.900
B1.02.07	0.90	15.8	16.700
B1.02.09	12.3	7.8	20.100
B1.02.10	11.10	7.6	18.700
B1.02.11	12.30	7.4	19.700
B1.02.14	19.40	6.8	26.200
B1.03.01	15.20	8.9	24.100
B1.03.02	6.10	7.5	13.600
B1.04.01	15.40	8.8	24.200
B1.04.02	6.20	7.7	13.900
B1.04.03	6.80	11.5	18.300
B1.04.09	15.40	7	22.400
B1.04.10	14.30	6.5	20.800
B1.04.11	14.40	6.6	21.000
B1.04.12	15.30	6.8	22.100
B1.04.13	14.50	6.6	21.100
B1.04.14	23.90	5.9	29.800
B1.05.01	15.40	9.1	24.500
B1.05.02	5.90	7.6	13.500
B1.06.01	15.20	9.2	24.400
B1.06.02	14.20	9.8	24.000
B1.06.03	15.20	12.4	27.600
B1.06.04	1.80	11.5	13.300
B1.06.05	1.80	11.6	13.400
B1.06.06	2	11.5	13.500
B1.06.07	5.80	13	18.800
B1.06.08	5.80	13.1	18.900
B1.06.09	20.60	15.7	36.300
B1.06.10	20.60	15.5	36.100

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
B1.06.11	21.80	16	37.800
B1.07.01	23.00	12.9	35.900
B1.07.02	13.60	12.9	26.500
B1.07.03	7.10	14.5	21.600
B1.07.04	7.10	14.7	21.800
B1.07.07	1.70	11.6	13.300
B1.07.08	22.00	15.9	37.900
B1.07.09	17.90	19.8	37.700
B1.07.10	18.4	19.4	37.800
B1.UG.01	26.00	8.3	34.300
B1.UG.02	8	7.4	15.400
B1.UG.03	23.80	3.9	27.700
B1.UG.04	17.70	4.5	22.200
B1.UG.05	20.80	4.6	25.400
B1.UG.07	20.9	4.7	25.600
B2.01.01	3	14.7	17.700
B2.01.02	1.1	15.6	16.700
B2.01.03	1.10	15.7	16.800
B2.01.04	7.20	11	18.200
B2.02.01	15.10	7.4	22.500
B2.02.02	12.40	7.2	19.600
B2.02.03	0.80	16.7	17.500
B2.02.04	0.70	16.7	17.400
B2.02.05	0.4	15.8	16.200
B2.02.06	0.4	15.9	16.300
B2.02.07	5.70	11.3	17.000
B2.02.10	14.20	8.2	22.400
B2.02.11	11.00	8	19.000
B2.02.14	8.10	7.7	15.800
B2.03.03	8	9.2	17.200
B2.04.01	14.40	6.4	20.800

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
B2.04.02	14.6	6.4	21.000
B2.04.03	1.5	13.3	14.800
B2.04.04	1.50	13.4	14.900
B2.04.07	7.90	9.3	17.200
B2.04.10	16.10	7.3	23.400
B2.04.11	15.10	7.2	22.300
B2.04.12	15.10	6.9	22.000
B2.04.13	15.10	7	22.100
B2.04.14	11.20	5.9	17.100
B2.04.15	10.4	8.1	18.500
B2.05.03	8.3	9	17.300
B2.06.01	20.8	16	36.800
B2.06.02	1.6	12.3	13.900
B2.06.03	1.60	12.3	13.900
B2.06.06	8.40	9	17.400
B2.06.09	16.20	7.3	23.500
B2.06.11	15.30	7.1	22.400
B2.06.12	14.90	7.2	22.100
B2.06.13	11.80	5.5	17.300
B2.06.14	10.90	7.4	18.300
B2.07.01	20.90	15.6	36.500
B2.07.02	1.50	12	13.500
B2.07.03	1.40	12	13.400
B2.07.04	1.50	12.1	13.600
B2.07.05	1.40	12.1	13.500
B2.07.06	8.50	8.8	17.300
B2.08.01	5.20	13.5	18.700
B2.08.02	1.50	11.9	13.400
B2.08.03	8.60	8.8	17.400
B2.08.10	11.10	5.3	16.400
B2.09.03	19.30	9.5	28.800

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
B2.09.10	11.70	5.2	16.900
B2.09.11	12.80	6.5	19.300
B2.10.05	23.40	5.9	29.300
B2.10.06	27.90	7.8	35.700
B2.UG.01	18.50	8.3	26.800
B2.UG.05	8.30	8	16.300
B2.UG.09	28.70	4.9	33.600
B3.01.03	28.60	8.7	37.300
B3.02.03	24.50	9.8	34.300
B3.02.06	28.90	7.8	36.700
B3.02.07	11.70	6.8	18.500
B3.02.08	6.90	7.8	14.700
B3.02.09	5.90	13.9	19.800
B3.02.10	13.20	7.4	20.600
B3.02.11	14.30	7.3	21.600
B3.02.12	14.20	7.4	21.600
B3.02.13	14.30	7.4	21.700
B3.02.14	13.90	7.5	21.400
B3.03.03	28.70	9.2	37.900
B3.04.03	28.70	7.5	36.200
B3.04.06	19.10	6.2	25.300
B3.04.07	18.60	6.7	25.300
B3.04.08	8.40	7.5	15.900
B3.04.09	10.00	5.6	15.600
B3.04.10	8.50	10.9	19.400
B3.04.11	15.00	6.9	21.900
B3.04.13	16.00	6.9	22.900
B3.05.03	30.30	7.1	37.400
B3.06.03	29.00	7.9	36.900
B3.06.06	20.70	6	26.700
B3.06.07	20.00	5.9	25.900

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
B3.06.08	9.80	6.8	16.600
B3.06.09	10.70	5.5	16.200
B3.06.10	9.10	10.4	19.500
B3.06.11	16.00	6.8	22.800
B3.06.14	16.80	6.8	23.600
B3.06.15	16.60	6.8	23.400
B3.07.03	29.30	8.1	37.400
B3.08.03	28.80	8.3	37.100
B3.08.06	21.00	6	27.000
B3.08.07	20.7	6	26.700
B3.08.08	8.2	6.5	14.700
B3.08.09	10.2	5	15.200
B3.08.10	8.40	9.3	17.700
B3.09.03	29.40	8.6	38.000
B3.09.08	9.10	6.1	15.200
B3.09.09	10.80	4.8	15.600
B3.09.10	9.10	8.9	18.000
B3.10.03	28.20	8	36.200
B3.10.08	10.00	6.7	16.700
B3.10.09	11.80	4.9	16.700
B3.10.10	10.00	9.4	19.400
B3.11.03	28.70	8.9	37.600
B3.11.08	7.40	12.8	20.200
B3.11.09	10.70	13	23.700
B3.11.10	21.70	15.2	36.900
B3.11.11	18.50	12.9	31.400
B3.11.12	17.40	13.8	31.200
B3.11.13	20.00	17.5	37.500
B3.UG.03	29.00	7.8	36.800
B3.UG.06	6.9	6.2	13.100
B3.UG.07	6.6	9.5	16.100

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
B3.UG.08	14.9	7.4	22.300
B3.UG.12	15.2	8.1	23.300
B4.01.01	19.2	9.2	28.400
B4.01.02	3.9	10.6	14.500
B4.02.01	19.9	9.2	29.100
B4.02.02	3.5	10.7	14.200
B4.02.03	12.7	8.3	21.000
B4.02.04	9.60	7.9	17.500
B4.02.05	9.6	7.9	17.500
B4.02.06	24.70	7.2	31.900
B4.02.07	17.30	6.9	24.200
B4.02.08	15.50	6.9	22.400
B4.02.09	17.20	6.8	24.000
B4.02.10	17.30	6.8	24.100
B4.02.11	27.00	7.3	34.300
B4.03.01	23.20	8.1	31.300
B4.03.02	5.10	9.10	14.200
B4.04.01	23	8	31.000
B4.04.02	4.3	9.2	13.500
B4.04.03	14.1	7.3	21.400
B4.04.04	10.8	6.7	17.500
B4.04.05	13.1	6.8	19.900
B4.04.09	19.40	6.1	25.500
B4.04.11	30.2	6.3	36.500
B4.05.01	22.3	8.1	30.400
B4.05.02	3.80	9.2	13.000
B4.06.01	20.30	8	28.300
B4.06.02	3.30	9.2	12.500
B4.06.03	13.50	7.4	20.900
B4.06.04	10.40	6.9	17.300
B4.06.07	19.50	6	25.500

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
B4.06.10	19.10	6	25.100
B4.06.11	29.80	6.3	36.100
B4.07.01	18.70	8.2	26.900
B4.07.02	3.10	9.3	12.400
B4.08.01	16.60	10.8	27.400
B4.08.02	3.60	10.5	14.100
B4.08.03	13.00	7	20.000
B4.08.08	19.20	6.3	25.500
B4.08.09	19.10	6.4	25.500
B4.08.10	19.10	6.3	25.400
B4.08.11	29.40	6.8	36.200
B4.09.01	18.40	10.7	29.100
B4.09.02	4.50	10.2	14.700
B4.09.03	13.80	7.1	20.900
B4.10.01	18.20	10	28.200
B4.10.02	2.90	12.4	15.300
B4.10.03	14.70	7.2	21.900
B4.11.01	26.40	8.7	35.100
B4.11.02	11.90	13.6	25.500
B4.11.03	13.20	11.7	24.900
B4.11.05	7.60	12.5	20.100
B4.11.07	7.40	12.6	20.000
B4.UG.01	23.90	8.6	32.500
B4.UG.02	6.50	10.1	16.600
B1.02.06, B1.02.08	1	15.8	16.800
B1.02.12, B1.02.13	12.30	7.5	19.800
B1.04.04, B1.04.05	2	12.5	14.500
B1.07.05, B1.07.06	7.10	15.1	22.200
B1.UG.06, B2.UG.08	20.90	4.7	25.600
B2.02.12, B2.02.13	13.40	8	21.400
B2.02.15, B2.UG.06	7.70	10.6	18.300

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
B2.03.01, B2.03.02	1.10	12.9	14.000
B2.04.05, B2.04.06	1.10	12.7	13.800
B2.05.01, B2.05.02	1.30	12.3	13.600
B2.06.04, B2.06.05	1.30	12.2	13.500
B2.06.10, B3.04.15	15.50	7.1	22.600
B2.08.11, B4.06.05	10.30	6.9	17.200
B2.09.01, B2.09.02	8.30	13.4	21.700
B3.04.12, B3.04.14	15.30	6.7	22.000
B3.06.12, B3.06.13	16.90	6.9	23.800
B4.04.06, B4.04.07	19.40	6.2	25.600
B4.04.08, B4.04.10	19.50	6.1	25.600
B4.08.04, B4.08.05	9.80	6.9	16.700
B4.08.06, B4.08.07	19.00	6.4	25.400
B4.09.04, B4.09.05	10.50	6.9	17.400
B4.10.04, B4.10.05	11.40	7.2	18.600
B1.04.06, B1.04.07, B1.04.08	2	12.8	14.800
B2.UG.02, B2.UG.03, B2.UG.04	17.60	7.8	25.400
B3.UG.09, B3.UG.10, B3.UG.11	14.8	7.4	22.200
B4.06.06, B4.06.08, B4.06.09	19.00	6	25.000
All other dwellings	7.50	12.7	20.200

(c) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	4 star (> 6 but <= 7.5 L/min)	4 star	6 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.	✓	✓	✓

3. Commitments for Residential flat buildings - Apartment E

(a) Buildings

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

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above garage, frame: suspended concrete slab	7181.77	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	brick veneer,frame:light steel frame	4106	-	rockwool batts, roll or pump-in

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	5786	-

Reinforcement concrete frames/columns

Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	100	-

Ceiling and roof types

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - bare internal, frame: light steel frame	7182.4	foil backed blanket	-

Glazing types**Frame types**

Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	2535.14	-	-	-	-	-	2535.14

(b) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	6 star	6 star	-	not specified	not specified	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	Central water tank (No. 1)	See central systems	See central systems	yes	yes	no	no	no

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		✓	✓
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 3)	individual fan, ducted to façade or roof	interlocked to light with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual on / timer off

	Cooling		Heating		Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bathrooms or toilets	Main kitchen
All dwellings	Central cooling system (No. 2)	Central cooling system (No. 2)	Central heating system (No. 2)	Central heating system (No. 2)	0	no

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	induction cooktop & electric oven	3.5 star	2 star	no	no

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

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
E1.01.02	11.70	21.2	32.900
E1.01.03	21.30	16.3	37.600
E1.02.02	16.9	18	34.900
E1.02.03	17.00	19.9	36.900

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
E1.02.04	13.5	19.9	33.400
E1.02.05	14.6	20	34.600
E1.02.06	14.70	19.8	34.500
E1.02.07	14.60	19.8	34.400
E1.02.08	23.30	11.2	34.500
E1.02.09	21.80	10.8	32.600
E1.03.02	20.70	14.8	35.500
E1.03.03	20.60	16.8	37.400
E1.04.02	21.80	14.6	36.400
E1.04.03	21.00	16.7	37.700
E1.04.08	24.70	8.2	32.900
E1.04.09	23.20	8.3	31.500
E1.05.02	20.20	15.1	35.300
E1.05.03	21.4	13.4	34.800
E1.05.08	21.40	8.7	30.100
E1.05.09	20	8.6	28.600
E1.06.02	19	15.1	34.100
E1.06.03	21.2	13	34.200
E1.06.08	21.2	8.8	30.000
E1.06.09	19.7	8.5	28.200
E1.07.02	18.2	15.4	33.600
E1.07.03	21.2	13.2	34.400
E1.07.08	19.9	8.7	28.600
E1.07.09	18.3	8.5	26.800
E1.08.02	17.1	15.6	32.700
E1.08.03	21.1	13.2	34.300
E1.08.08	17.8	8.8	26.600
E1.08.09	16.6	8.6	25.200
E1.09.02	19.8	17.4	37.200
E1.09.03	29.2	8.7	37.900
E1.09.08	16.1	8.5	24.600

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adjusted total load (in MJ/m²/yr)
E1.09.09	15	8.2	23.200
E1.10.05	13.3	8.4	21.700
E1.10.06	12.3	8.1	20.400
E1.11.05	19.4	8.5	27.900
E1.11.06	27.3	9.7	37.000
E1.G.01	1.40	13.60	15.000
E1.G.04	1.4	12.9	14.300
E1.UG.01	12.2	21	33.200
E2.01.01	21.6	12.9	34.500
E2.01.02	10.7	13.3	24.000
E2.02.01	21.9	13.2	35.100
E2.02.02	11.1	15.1	26.200
E2.02.04	19.6	8.5	28.100
E2.02.05	22.7	10	32.700
E2.02.06	13.7	19.3	33.000
E2.02.07	13.8	19.5	33.300
E2.02.08	13.7	19.5	33.200
E2.02.09	13.8	19.6	33.400
E2.03.01	24.10	12.6	36.700
E2.03.02	14	13	27.000
E2.04.01	22.3	14.6	36.900
E2.04.02	10.6	16.6	27.200
E2.04.04	21.8	6.9	28.700
E2.04.05	13.40	8.9	22.300
E2.05.01	22.30	15.2	37.500
E2.05.02	15.40	10.5	25.900
E2.05.04	19.70	6.7	26.400
E2.05.05	29.00	7.8	36.800
E2.06.01	12.90	16.9	29.800
E2.06.02	8.80	17.5	26.300
E2.06.04	19.60	6.7	26.300

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m²/yr)	Area adjusted cooling load (in MJ/m²/yr)	Area adjusted total load (in MJ/m²/yr)
E2.06.05	23.10	8.8	31.900
E2.07.01	11.90	17.1	29.000
E2.07.02	8.20	18.5	26.700
E2.07.04	19.20	7	26.200
E2.07.05	22.90	8.9	31.800
E2.08.01	12.10	17	29.100
E2.08.02	8.20	18.6	26.800
E2.08.04	17.20	7.2	24.400
E2.08.05	27.40	8.1	35.500
E2.09.01	13.9	15.2	29.100
E2.09.02	9.10	16.9	26.000
E2.09.04	15.10	7.3	22.400
E2.09.05	25.20	8.3	33.500
E2.10.01	14.00	15.5	29.500
E2.10.02	8.60	17.1	25.700
E2.10.04	8.5	8.1	16.600
E2.10.05	22.2	8.6	30.800
E2.11.01	24.60	13.3	37.900
E2.11.02	16.10	20.3	36.400
E2.11.04	13.10	14.7	27.800
E2.11.05	5.90	12.7	18.600
E2.11.06	7.2	12.7	19.900
E2.11.07	9	13	22.000
E2.11.08	23.2	14.5	37.700
E2.11.09	24.2	13.5	37.700
E2.11.10	24.90	13	37.900
E2.11.11	24.10	13.8	37.900
E2.G.01	1.40	13.1	14.500
E2.UG.01	24.80	11.7	36.500
E2.UG.02	11.60	12.6	24.200
E2.UG.04	12.50	20.3	32.800

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
E2.UG.05	13.20	20.7	33.900
E2.UG.06	13.10	20.9	34.000
E2.UG.07	13.40	21	34.400
E1.G.02, E1.G.03	1.4	13.1	14.500
E1.UG.02, E1.UG.03, E1.UG.04	13.2	20.9	34.100
All other dwellings	1.40	12.3	13.700

(c) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	4 star (> 6 but <= 7.5 L/min)	4 star	6 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 - Apartment F

(a) Buildings

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

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above garage, frame: suspended concrete slab	2357.66	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (metal clad), frame: light steel frame	939	-	rockwool batts, roll or pump-in
External wall type 2	brick veneer, frame: light steel frame	939	-	rockwool batts, roll or pump-in

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame: light steel frame	1676	-

Reinforcement concrete frames/columns		
Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	100	-

Ceiling and roof types			
Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - bare internal, frame: light steel frame	2357.6	foil backed blanket	-

Glazing types			Frame types				
Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
-	835.5	-	-	-	-	-	835.5

(b) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	6 star	6 star	-	not specified	not specified	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	Central water tank (No. 1)	See central systems	See central systems	yes	yes	no	no	no

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓ ✓	✓
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 4)	individual fan, ducted to façade or roof	interlocked to light with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual on / timer off

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

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	induction cooktop & electric oven	3.5 star	2 star	no	no

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

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
F.01.01	2.90	7.7	10.600
F.01.02	14.80	14.3	29.100
F.01.03	26.80	9.9	36.700
F.01.04	20.80	8.8	29.600

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
F.01.05	6.60	8.4	15.000
F.01.06	2.20	13.8	16.000
F.02.01	3.10	7.5	10.600
F.02.02	15	13.9	28.900
F.02.03	26.70	9.4	36.100
F.02.04	21.70	8.4	30.100
F.02.05	7	7.4	14.400
F.02.06	2.5	12.9	15.400
F.03.01	7.1	7.2	14.300
F.03.02	17.4	11.1	28.500
F.03.03	27.60	8.2	35.800
F.03.04	25.8	7	32.800
F.03.05	11.60	5.90	17.500
F.03.06	7.40	12.2	19.600
F.04.01	16.00	9.7	25.700
F.04.02	13.8	11.5	25.300
F.04.03	24.00	9.5	33.500
F.04.04	24	5.9	29.900
F.04.05	15.00	9.1	24.100
F.05.01	15.80	9.2	25.000
F.05.02	13.3	10.9	24.200
F.05.03	24.3	9.5	33.800
F.05.04	23.40	6.4	29.800
F.05.05	15.20	9.1	24.300
F.06.01	22.40	13.6	36.000
F.06.02	20.7	13.8	34.500
F.06.03	24.4	10.3	34.700
F.06.04	27.80	9.7	37.500
F.06.05	25.60	11.9	37.500
F.G.01	26.6	9.9	36.500
F.G.02	5.1	9.1	14.200

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
F.G.03	3	18.8	21.800
F.UG.01	1.6	9.4	11.000
F.UG.02	15.1	14.6	29.700
F.UG.03	25	11.7	36.700
F.UG.04	19.4	9	28.400
F.UG.05	5.9	8.6	14.500
All other dwellings	1.9	15.1	17.000

(c) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	4 star (> 6 but <= 7.5 L/min)	4 star	6 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.	✓	✓	✓

5. Commitments for Residential flat buildings - Apartment G

(a) Buildings

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

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above garage, frame: suspended concrete slab	4635.83	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	brick veneer, frame: light steel frame	3789	-	rockwool batts, roll or pump-in

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame: light steel frame	3038	-

Reinforcement concrete frames/columns

Building has reinforced concrete frame/columns?	Volume (m³)	Low emissions option
yes	100	-

Ceiling and roof types

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
framed - concrete tiles, frame: light steel frame	4635.9	foil backed blanket	-

Glazing types

Frame types

Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
0	1453.3	0	0	0	-	0	1453.3

(b) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	4 star (> 6 but ≤ 7.5 L/min)	4 star	6 star	6 star	-	not specified	not specified	-	-	-	-	-	-	-

	Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	Central water tank (No. 1)	See central systems	See central systems	yes	yes	no	no	no

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		✓	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		✓	✓
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	

	Hot water	Bathroom ventilation system		Kitchen ventilation system		Laundry ventilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	Central hot water system (No. 5)	individual fan, ducted to façade or roof	interlocked to light with timer off	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	manual on / timer off

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

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	-	induction cooktop & electric oven	3.5 star	2 star	no	no

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

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
G1.01.01	14.70	11.3	26.000
G1.01.02	10.10	8.5	18.600
G1.01.03	12.80	7.7	20.500
G1.01.04	8.40	7	15.400

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
G1.01.05	24.80	12.4	37.200
G1.02.01	17.50	10.5	28.000
G1.02.02	10.70	8.3	19.000
G1.02.03	8.4	9	17.400
G1.02.04	14.7	6.2	20.900
G1.03.01	20.60	8.4	29.000
G1.03.02	13.7	7.8	21.500
G1.03.03	11.2	7.2	18.400
G1.03.04	15.6	8	23.600
G1.04.01	21.2	8.4	29.600
G1.04.02	13.9	7.8	21.700
G1.04.03	10.4	7.2	17.600
G1.04.04	16	7.9	23.900
G1.05.01	21.9	8.3	30.200
G1.05.02	13.1	7.9	21.000
G1.05.03	8.8	7.3	16.100
G1.05.04	16.6	7.7	24.300
G1.06.01	27.5	9.7	37.200
G1.06.02	17.7	8.9	26.600
G1.06.03	14.8	9.1	23.900
G1.06.04	23.7	13.3	37.000
G1.G.01	15.6	6.8	22.400
G1.G.02	18.2	4.4	22.600
G1.G.03	25.3	9.9	35.200
G1.G.04	23.5	13	36.500
G1.G.05	22.4	11.9	34.300
G1.G.06	24.1	12.6	36.700
G1.UG.01	11.6	9.6	21.200
G1.UG.02	24.5	5.3	29.800
G2.01.01	17.6	10.3	27.900
G2.01.02	22.2	9.3	31.500

	Thermal loads		
Dwelling no.	Area adjusted heating load (in MJ/m ² /yr)	Area adjusted cooling load (in MJ/m ² /yr)	Area adjusted total load (in MJ/m ² /yr)
G2.01.03	21.1	14.2	35.300
G2.01.04	20.9	12.5	33.400
G2.01.05	9.8	7.2	17.000
G2.02.01	18.8	10.2	29.000
G2.02.02	23.4	11.8	35.200
G2.02.03	15.7	6.6	22.300
G2.02.04	5	7.5	12.500
G2.03.01	22.7	10.1	32.800
G2.03.02	24.4	9.2	33.600
G2.03.03	14.3	8	22.300
G2.03.04	7.6	6.4	14.000
G2.04.01	23.1	10.1	33.200
G2.04.02	25.6	11.7	37.300
G2.04.03	14.7	7.9	22.600
G2.04.04	7.1	6.5	13.600
G2.05.01	31.3	6.5	37.800
G2.05.02	20.2	16.1	36.300
G2.05.03	15.2	7.5	22.700
G2.05.04	8.5	6.5	15.000
G2.06.01	27.4	10	37.400
G2.06.02	18.6	19.3	37.900
G2.06.03	25.6	10.9	36.500
G2.06.04	17.9	8.3	26.200
G2.G.01	25.1	6.4	31.500
G2.G.02	20.4	14	34.400
G2.G.03	25.1	12.4	37.500
G2.G.04	21.2	12.1	33.300
G2.G.05	21	11.9	32.900
G2.G.06	29	8	37.000
G2.UG.01	17.5	11.6	29.100
All other dwellings	26	11.2	37.200

(c) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	4 star (> 6 but <= 7.5 L/min)	4 star	6 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.	✓	✓	✓

6. Commitments for multi-dwelling housing

(a) Dwellings

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

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below; (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓ ✓ ✓	✓
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	
(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			

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

7. Commitments for single dwelling houses

(a) Dwellings

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

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		✓	✓
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		✓	✓
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	✓	✓	✓
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must: (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		✓ ✓	
(h) The applicant must install in the dwelling: (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below; (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		✓ ✓ ✓	✓
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		✓	
(iii) Thermal Performance and Materials	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			

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

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

(a) Buildings 'Other'

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

Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above garage, frame: suspended concrete slab	27192.68	-	-

External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	brick veneer,frame:light steel frame	1000	-	rockwool batts, roll or pump-in

Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	5786	-

Reinforcement concrete frames/columns

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

Ceiling and roof types

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

Glazing types**Frame types**

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

(b) Common areas and central systems/facilities

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

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

Central systems	Size	Configuration	Connection (to allow for...)
Central water tank - rainwater or stormwater (No. 1)	20000	To collect run-off from at least: - 820 square metres of roof area of buildings in the development - 0 square metres of impervious area in the development - 0 square metres of garden/lawn area in the development - 0 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system).	- irrigation of 2709 square metres of common landscaped area on the site - car washing in 2 car washing bays on the site
Fire sprinkler system (No. 1)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

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

	Common area ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS
Lift bank (No. 1)	-	-	light-emitting diode	connected to lift call button	yes
Lift bank (No. 2)	-	-	light-emitting diode	connected to lift call button	yes
Lift bank (No. 3)	-	-	light-emitting diode	connected to lift call button	yes
Lift bank (No. 4)	-	-	light-emitting diode	connected to lift call button	yes
Lift bank (No. 5)	-	-	light-emitting diode	connected to lift call button	yes
Undercover Car Park	ventilation exhaust only	carbon monoxide monitor + VSD fan	light-emitting diode	zoned switching with motion sensor	yes
Lift Rooms	ventilation supply only	interlocked to light	light-emitting diode	manual on / manual off	yes
Garbage Rooms	ventilation exhaust only	-	light-emitting diode	manual on / manual off	yes
BTR Communal Area	air conditioning system	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	yes
BTR & Co-Living Communal Areas	air conditioning system	time clock or BMS controlled	light-emitting diode	daylight sensor and motion sensor	yes
BTR Plant/Service Rooms	ventilation supply only	interlocked to light	light-emitting diode	manual on / manual off	yes
Shared Plant/Services	ventilation supply only	interlocked to light	light-emitting diode	manual on / manual off	yes
Ground Floor Lobbies	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	yes
Hallway/Lobby Type (No. 1)	no mechanical ventilation	-	light-emitting diode	time clock and motion sensors	yes

Central energy systems	Type	Specification
Central hot water system (No. 1)	electric heat pump – air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm) (c) Unit Efficiency: $3.0 < \text{COP} \leq 3.5$
Central hot water system (No. 2)	electric heat pump – air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm) (c) Unit Efficiency: $3.0 < \text{COP} \leq 3.5$
Central hot water system (No. 3)	electric heat pump – air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm) (c) Unit Efficiency: $3.0 < \text{COP} \leq 3.5$
Central hot water system (No. 4)	electric heat pump – air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm) (c) Unit Efficiency: $3.0 < \text{COP} \leq 3.5$
Central hot water system (No. 5)	electric heat pump – air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R0.6 (~25 mm); (b) Piping internal to building: R0.6 (~25 mm) (c) Unit Efficiency: $3.0 < \text{COP} \leq 3.5$
Central cooling system (No. 1)	chilled water fan coil units	Energy source: electric driven compressor Heat rejection method: air cooled condenser Unit efficiency (min): low – $\text{COP} < 3.5$
Central cooling system (No. 2)	chilled water fan coil units	Energy source: electric driven compressor Heat rejection method: air cooled condenser Unit efficiency (min): low – $\text{COP} < 3.5$
Central heating system (No. 1)	fan coil + heater water	Energy source: electric boiler
Central heating system (No. 2)	fan coil + heater water	Energy source: electric boiler
Lift bank (No. 1)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 8 number of levels from the bottom of the lift shaft to the top of the lift shaft: 9 number of lifts: 2 lift load capacity: $\geq 1001 \text{ kg}$ but $\leq 1500 \text{ kg}$
Lift bank (No. 2)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 9 number of levels from the bottom of the lift shaft to the top of the lift shaft: 9 number of lifts: 6 lift load capacity: $\geq 1001 \text{ kg}$ but $\leq 1500 \text{ kg}$

Central energy systems	Type	Specification
Lift bank (No. 3)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 9 number of levels from the bottom of the lift shaft to the top of the lift shaft: 10 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Lift bank (No. 4)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 8 number of levels from the bottom of the lift shaft to the top of the lift shaft: 8 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Lift bank (No. 5)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 8 number of levels from the bottom of the lift shaft to the top of the lift shaft: 8 number of lifts: 4 lift load capacity: >= 1001 kg but <= 1500kg
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 100 peak kW
Other	Building management system installed?: yes	-

Notes

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

Legend

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