

BASIX[®]Certificate

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

Multi Dwelling

Certificate number: 566959M




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 29/06/2009 published by Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

Director-General

Date of issue: Wednesday, 13 August 2014

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



Project summary		
Project name	MPV- Stage 1	
Street address	110-111 Herring Road Macquarie Park 2113	
Local Government Area	Ryde City Council	
Plan type and plan number	strata DP780314	
Lot no.	1	
Section no.	-	
No. of residential flat buildings	4	
No. of units in residential flat buildings	343	
No. of multi-dwelling houses	0	
No. of single dwelling houses	0	
Project score		
Water	 42	Target 40
Thermal Comfort	 Pass	Target Pass
Energy	 21	Target 20

Certificate Prepared by

Name / Company Name: Inhabitgroup

ABN (if applicable): 77 136 869 942

Description of project

Project address

Project name	MPV- Stage 1
Street address	110-111 Herring Road Macquarie Park 2113
Local Government Area	Ryde City Council
Plan type and plan number	strata DP780314
Lot no.	1
Section no.	-

Project type

No. of residential flat buildings	4
No. of units in residential flat buildings	343
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Site details

Site area (m ²)	22433
Roof area (m ²)	2708
Non-residential floor area (m ²)	0
Residential car spaces	378
Non-residential car spaces	7

Common area landscape

Common area lawn (m ²)	901
Common area garden (m ²)	1868
Area of indigenous or low water use species (m ²)	934

Assessor details

Assessor number	60832
Certificate number	1006717902
Climate zone	56

Project score

Water	✓ 42	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 21	Target 20

Description of project

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

Residential flat buildings - Adelaide, 74 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)
AD101	1	54.8	4.8	0	0
AD106	1	54.1	8.8	0	0
AD110	1	51.5	8.1	0	0
AD202	2	73.1	4.9	0	0
AD207	2	78.4	4.8	0	0
AD211	2	75.9	3.9	0	0
AD303	2	63.2	8.1	0	0
AD308	1	53.6	8.5	0	0
AD312	1	51.5	8.1	0	0
AD501	2	81.6	4.8	0	0
AD506	2	51.5	3.9	0	0
AD603	1	51.5	8.1	0	0
AD608	1	59.8	4.6	0	0
AD705	1	51.5	8.1	0	0
AD801	2	81.6	4.8	0	0
AD806	1	51.5	8.1	0	0
ADG02	2	67.2	4.9	0	0
ADG07	2	78.4	4.4	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)
AD102	2	73.1	4.9	0	0
AD107	2	78.4	4.8	0	0
AD111	2	75.9	3.9	0	0
AD203	2	72.3	4.7	0	0
AD208	1	51.5	8.1	0	0
AD212	1	59.8	4.6	0	0
AD305	1	53.6	8.5	0	0
AD309	1	53.6	8.1	0	0
AD313	1	51.5	8.1	0	0
AD502	1	78.4	8.1	0	0
AD507	1	75.9	4.6	0	0
AD605	1	51.5	8.1	0	0
AD701	2	81.6	4.8	0	0
AD706	1	51.5	8.1	0	0
AD802	2	78.4	4.4	0	0
AD807	2	76.7	3.9	0	0
ADG03	2	72.3	4.7	0	0
ADG08	1	51.5	8.1	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)
AD103	2	72.3	4.7	0	0
AD108	1	51.4	8.1	0	0
AD112	1	59.8	4.6	0	0
AD205	1	54.1	8.8	0	0
AD209	1	51.5	8.1	0	0
AD301	1	54.8	4.8	0	0
AD306	1	53.6	8.5	0	0
AD310	2	78.4	4.8	0	0
AD315	2	75.9	3.9	0	0
AD503	1	51.5	8.1	0	0
AD601	2	81.6	4.8	0	0
AD606	1	51.5	8.1	0	0
AD702	2	78.4	4.8	0	0
AD707	2	75.9	3.9	0	0
AD803	1	51.5	8.1	0	0
AD808	1	59.8	4.6	0	0
ADG05	1	54.1	6.5	0	0
ADG09	1	54.5	6.5	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)
AD105	1	54.1	8.8	0	0
AD109	1	54.4	6.5	0	0
AD201	1	54.8	4.8	0	0
AD206	1	54.1	8.8	0	0
AD210	1	51.5	8.1	0	0
AD302	2	73.1	4.9	0	0
AD307	1	53.6	8.5	0	0
AD311	1	51.5	8.1	0	0
AD316	1	59.8	4.6	0	0
AD505	1	51.5	8.1	0	0
AD602	2	78.4	4.8	0	0
AD607	2	75.9	3.9	0	0
AD703	1	51.5	8.1	0	0
AD708	1	59.8	4.6	0	0
AD805	1	51.5	8.1	0	0
ADG01	1	54.8	4.8	0	0
ADG06	1	54.1	6.5	0	0
ADG10	1	51.5	8.1	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)
ADG11	2	75.9	4.6	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)
ADG12	1	59.8	4.6	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)
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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)
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Residential flat buildings - Darwin, 61 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)
DA101	2	72.0	4.1	0	0
DA106	2	51.5	8.8	0	0
DA201	2	72.0	4.1	0	0
DA206	2	51.5	8.8	0	0
DA301	2	72.0	4.1	0	0
DA306	1	51.5	8.8	0	0
DA501	2	72.0	4.1	0	0
DA506	2	51.5	8.8	0	0
DA601	2	72.0	4.1	0	0
DA606	1	51.5	8.8	0	0
DA702	2	51.5	8.8	0	0
DA707	2	70.1	5.3	0	0
DA803	1	54.5	7.0	0	0
DA808	2	70.1	5.3	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)
DA102	2	51.5	8.8	0	0
DA107	1	39.9	3.9	0	0
DA202	2	51.5	8.8	0	0
DA207	1	39.9	3.9	0	0
DA302	2	51.5	8.8	0	0
DA307	1	39.9	3.9	0	0
DA502	1	51.5	8.8	0	0
DA507	1	39.9	3.9	0	0
DA602	2	51.5	8.8	0	0
DA607	2	70.1	5.3	0	0
DA703	1	54.5	7.0	0	0
DA708	1	70.1	5.3	0	0
DA805	1	51.5	8.8	0	0
DAG01	2	51.4	8.8	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)
DA103	1	54.5	7.0	0	0
DA108	2	70.1	5.3	0	0
DA203	1	54.5	7.0	0	0
DA208	2	70.1	5.3	0	0
DA303	2	54.5	7.0	0	0
DA308	2	70.1	5.3	0	0
DA503	1	54.5	7.0	0	0
DA508	2	70.1	5.3	0	0
DA603	1	54.5	7.0	0	0
DA608	2	70.1	5.3	0	0
DA705	1	51.5	8.8	0	0
DA801	2	72.0	4.1	0	0
DA806	1	51.5	8.8	0	0
DAG02	1	54.5	7.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
DA105	2	51.5	8.8	0	0
DA109	2	70.1	5.3	0	0
DA205	2	51.5	8.8	0	0
DA209	2	70.1	5.3	0	0
DA305	1	51.5	8.8	0	0
DA309	2	70.1	5.3	0	0
DA505	1	51.5	8.8	0	0
DA509	2	70.1	5.3	0	0
DA605	1	51.5	8.8	0	0
DA701	2	72.0	4.1	0	0
DA706	1	51.5	8.8	0	0
DA802	2	51.5	8.8	0	0
DA807	2	70.1	5.3	0	0
DAG03	2	51.5	8.8	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)
DAG05	2	51.5	8.8	0	0
DAG09	1	72.0	4.1	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)
DAG06	1	39.9	9.9	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)
DAG06	2	70.1	5.3	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)
DAG08	2	70.1	5.3	0	0

Residential flat buildings - Perth, 78 dwellings, 10 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)
P1001	2	81.1	5.0	0	0
PE201	2	61.5	4.7	0	0
PE206	1	62.4	4.8	0	0
PE210	2	68.8	6.4	0	0
PE303	2	80.0	9.1	0	0
PE308	1	43.5	8.0	0	0
PE501	2	61.5	4.7	0	0
PE506	1	62.4	4.8	0	0
PE510	2	68.8	6.4	0	0
PE603	1	49.4	8.8	0	0
PE608	1	43.5	8.0	0	0
PE701	1	61.5	4.7	0	0
PE706	1	62.4	4.8	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)
P1002	1	45.2	6.2	0	0
PE202	2	64.4	7.1	0	0
PE207	1	43.5	8.0	0	0
PE211	2	61.5	4.7	0	0
PE305	1	49.4	8.8	0	0
PE309	2	61.5	4.2	0	0
PE502	2	64.4	7.1	0	0
PE507	1	43.5	8.0	0	0
PE511	2	61.5	4.7	0	0
PE605	1	49.4	8.8	0	0
PE609	2	61.5	4.2	0	0
PE702	1	64.4	7.1	0	0
PE707	1	43.5	8.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
P1003	2	76.0	5.8	0	0
PE203	2	80.0	9.1	0	0
PE208	1	62.4	4.8	0	0
PE301	2	61.5	4.7	0	0
PE306	1	43.5	8.0	0	0
PE310	2	68.8	6.4	0	0
PE503	2	80.0	9.1	0	0
PE508	1	62.4	4.8	0	0
PE601	2	61.5	4.7	0	0
PE606	1	43.5	8.0	0	0
PE610	2	68.8	6.4	0	0
PE703	1	49.4	8.8	0	0
PE708	1	62.4	4.8	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)
P1005	2	85.0	4.8	0	0
PE205	1	49.4	8.8	0	0
PE209	2	61.5	4.2	0	0
PE302	2	64.4	7.1	0	0
PE307	1	62.4	4.8	0	0
PE311	2	61.5	4.7	0	0
PE505	1	49.4	8.8	0	0
PE509	2	61.5	4.2	0	0
PE602	2	64.4	7.1	0	0
PE607	1	62.4	4.8	0	0
PE611	2	61.5	4.7	0	0
PE705	1	49.4	8.8	0	0
PE709	2	61.5	4.2	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)
PE710	2	68.8	6.4	0	0
PE803	1	49.4	8.8	0	0
PE808	1	43.5	8.0	0	0
PE901	2	81.1	5.0	0	0
PEG01	2	61.7	7.0	0	0
PEG06	1	54.0	4.8	0	0
PEG10	1	54.0	4.8	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)
PE711	2	61.5	4.7	0	0
PE805	1	62.4	4.8	0	0
PE809	2	61.5	4.2	0	0
PE902	1	45.2	6.2	0	0
PEG02	1	54.0	4.8	0	0
PEG07	1	54.0	4.8	0	0
PEG11	2	70.1	7.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
PE801	2	61.5	4.7	0	0
PE806	1	43.5	8.0	0	0
PE810	2	68.8	6.4	0	0
PE903	2	76.0	5.8	0	0
PEG03	1	54.0	4.8	0	0
PEG08	1	54.0	4.8	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)
PE802	2	64.4	7.1	0	0
PE807	1	62.4	4.8	0	0
PE811	2	61.5	4.7	0	0
PE905	2	85.0	4.8	0	0
PEG05	1	54.0	4.8	0	0
PEG09	1	54.0	4.8	0	0

Residential flat buildings - Brisbane, 130 dwellings, 11 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)
B201	1	58.7	6.2	0	0
B206	2	69.9	4.1	0	0
B210	1	60.3	5.6	0	0
B301	1	58.7	6.2	0	0
B306	2	69.9	4.1	0	0
B310	1	60.3	5.6	0	0
B501	1	58.7	6.2	0	0
B506	2	69.9	4.1	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)
B202	2	74.1	4.3	0	0
B207	1	49.2	4.4	0	0
B211	2	78.5	7.4	0	0
B302	2	74.1	4.3	0	0
B307	1	49.2	4.4	0	0
B311	2	78.5	7.4	0	0
B502	2	74.1	4.3	0	0
B507	1	49.2	4.4	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)
B203	2	81.3	7.4	0	0
B208	1	49.2	4.4	0	0
B212	2	75.3	4.4	0	0
B303	2	81.3	7.4	0	0
B308	1	49.2	4.4	0	0
B312	2	75.3	4.4	0	0
B503	2	78.5	7.4	0	0
B508	1	49.2	4.4	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)
B205	1	44.2	6.7	0	0
B209	2	69.9	4.1	0	0
B213	2	60.3	5.6	0	0
B305	1	44.2	6.7	0	0
B309	2	69.9	4.1	0	0
B313	2	60.3	5.6	0	0
B505	1	44.2	6.7	0	0
B509	2	69.9	4.1	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)
B510	1	60.3	5.6	0	0
B601	1	58.7	6.2	0	0
B606	2	69.9	4.1	0	0
B610	1	60.3	5.6	0	0
B701	1	58.7	6.2	0	0
B706	2	69.9	4.1	0	0
B710	1	60.3	5.6	0	0
B801	1	58.7	6.2	0	0
B806	2	69.9	4.1	0	0
B810	1	60.3	5.6	0	0
B901	1	56.5	6.2	0	0
B906	2	69.9	4.1	0	0
B910	2	75.8	4.4	0	0
BG03	2	80.8	4.8	0	0
BG08	1	50.4	4.8	0	0
BG12	2	86.8	7.0	0	0
B1005	1	44.2	6.7	0	0
B1009	2	78.5	7.4	0	0
B1102	2	74.1	4.3	0	0
B1107	2	77.6	7.4	0	0
B1201	1	56.5	6.2	0	0
B1206	1	49.2	4.4	0	0
B1210	2	55.9	5.6	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)
B511	2	78.5	7.4	0	0
B602	2	74.1	4.3	0	0
B607	1	49.2	4.4	0	0
B611	2	78.5	7.4	0	0
B702	2	74.1	4.3	0	0
B707	1	49.2	4.4	0	0
B711	2	78.5	7.4	0	0
B802	2	74.1	4.3	0	0
B807	1	49.2	4.4	0	0
B811	2	78.5	7.4	0	0
B902	2	74.1	4.3	0	0
B907	1	49.2	4.4	0	0
B911	2	55.9	5.6	0	0
BG05	1	50.4	4.8	0	0
BG09	1	50.4	4.8	0	0
B1001	1	56.5	6.2	0	0
B1006	2	69.9	4.1	0	0
B1010	2	75.8	4.4	0	0
B1103	2	87.0	7.0	0	0
B1108	2	78.5	7.4	0	0
B1202	2	74.1	4.3	0	0
B1207	2	77.6	7.4	0	0
B1301	1	56.5	6.2	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)
B512	2	75.3	4.4	0	0
B603	2	78.5	7.4	0	0
B608	1	49.2	4.4	0	0
B612	2	75.3	4.4	0	0
B703	2	78.5	7.4	0	0
B708	1	49.2	4.4	0	0
B712	2	75.3	4.4	0	0
B803	2	78.5	7.4	0	0
B808	1	49.2	4.4	0	0
B812	2	75.3	4.4	0	0
B903	2	78.5	7.4	0	0
B908	2	77.6	7.4	0	0
BG01	2	86.8	7.0	0	0
BG06	1	50.4	4.8	0	0
BG10	2	80.8	4.8	0	0
B1002	2	74.1	4.3	0	0
B1007	1	49.2	4.4	0	0
B1011	2	55.9	5.6	0	0
B1105	2	73.3	4.0	0	0
B1109	2	75.8	4.4	0	0
B1203	2	87.0	7.0	0	0
B1208	2	78.5	7.4	0	0
B1302	2	74.1	4.3	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)
B513	2	60.3	5.6	0	0
B605	1	44.2	6.7	0	0
B609	2	69.9	4.1	0	0
B613	2	60.3	5.6	0	0
B705	1	44.2	6.7	0	0
B709	2	69.9	4.1	0	0
B713	2	60.3	5.6	0	0
B805	1	44.2	6.7	0	0
B809	2	69.9	4.1	0	0
B813	2	60.3	5.6	0	0
B905	1	44.2	6.7	0	0
B909	2	78.5	7.4	0	0
BG02	1	50.4	4.8	0	0
BG07	1	50.4	4.8	0	0
BG11	1	50.4	4.8	0	0
B1003	2	78.5	7.4	0	0
B1008	2	77.6	7.4	0	0
B1101	1	56.5	6.2	0	0
B1106	1	49.2	4.4	0	0
B1110	2	55.9	5.6	0	0
B1205	2	73.3	4.0	0	0
B1209	2	75.8	4.4	0	0
B1303	2	87.0	7.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
B1305	2	73.3	4.0	0	0
B1309	2	75.8	4.4	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)
B1306	1	49.2	4.4	0	0
B1310	2	55.9	5.6	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)
B1307	2	77.6	7.4	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)
B1308	2	78.5	7.4	0	0

Description of project

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

Common areas of unit building - Adelaide

Common area	Floor area (m²)
Lift car (No. 1)	-
Darwin Lifts	104
Stairs Adelaide	250.16

Common area	Floor area (m²)
Lift car (No. 9)	-
Recycling Rooms Adelaide	76.8
Adeladie G	94.68

Common area	Floor area (m²)
Adelaide Lifts	58.5
Recycling Rooms Perth	262.4
Hallway/lobby type Adeladie	487.32

Common areas of unit building - Darwin

Common area	Floor area (m²)
Lift car (No. 2)	-
Staris Darwin	104

Common area	Floor area (m²)
Lift car (No. 10)	-
DarwinG	33.84

Common area	Floor area (m²)
Recycling Rooms Darwin	71.68
Hallway/lobby type Darwin	247.8

Common areas of unit building - Perth

Common area	Floor area (m²)
Lift car (No. 3)	-
Perth Lifts	299.2
Perth G	35.2

Common area	Floor area (m²)
Lift car (No. 4)	-
Main Garbage	85.12
Hallway/lobby type Perth	887.52

Common area	Floor area (m²)
Lift car (No. 5)	-
Staris Perth	666.54

Common areas of unit building - Brisbane

Common area	Floor area (m²)
Lift car (No. 6)	-
Brisbane Lifts	158.4
Brisbane G	42.24

Common area	Floor area (m²)
Lift car (No. 7)	-
Recycling Rooms Brisbane	155.4
Hallway/lobby type Brisbane	552.96

Common area	Floor area (m²)
Lift car (No. 8)	-
Staris Brisbane	267.84

Common areas of the development (non-building specific)

Common area	Floor area (m ²)
Level B1	7310.87

Common area	Floor area (m ²)
LevelB2	7310.87

Common area	Floor area (m ²)
Level B3	3373.13

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Adelaide

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

2. Commitments for Residential flat buildings - Darwin

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

3. Commitments for Residential flat buildings - Perth

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

4. Commitments for Residential flat buildings - Brisbane

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

5. Commitments for multi-dwelling houses

6. Commitments for single dwelling houses

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

- (i) Water
- (ii) Energy

Schedule of BASIX commitments

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

1. Commitments for Residential flat buildings - Adelaide

(a) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
AD305, AD306, AD307, AD308, AD309, AD310, AD315, AD316, AD507, AD601, AD608, AD701, AD708, AD801, AD802, AD803, AD805, AD806, AD807, AD808	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	-	5 star	-	-	-	-	-	-	-

	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
AD101, AD102, AD103, AD105, AD106, AD107, AD108, AD109, AD110, AD111, AD112, AD201, AD202, AD203, AD205, AD206, AD207, AD208, AD209, AD210, AD211, AD212, AD301, AD302, AD303, AD311, AD312, AD313, AD501, AD502, AD503, AD505, AD506, AD602, AD603, AD605, AD606, AD607, AD702, AD703,	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	-	5 star	-	-	-	-	-	-	-

	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
AD705, AD706, AD707, ADG01, ADG02, ADG03, ADG05, ADG06, ADG07, ADG08, ADG09, ADG10, ADG11, ADG12														

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

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓

(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".		✓	

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
AD315	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1	1	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
AD316	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	2	1	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
AD103, AD111, AD203, AD211, AD303, AD305, AD312, AD506, AD607, AD707, AD807, ADG03, ADG11	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
AD102, AD107, AD112, AD202, AD207, AD212, AD302, AD313, AD501, AD507, AD601, AD602, AD608, AD701, AD702, AD708, AD801, AD802, AD808, ADG02, ADG07, ADG12	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
AD101, AD105, AD106, AD108, AD109, AD110, AD201, AD205, AD206, AD208, AD209, AD210, AD301, AD306, AD307, AD308, AD309, AD310, AD311, AD502, AD503, AD505, AD603, AD605, AD606, AD703, AD705, AD706, AD803, AD805, AD806, ADG01, ADG05, ADG06, ADG08, ADG09, ADG10	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	2.5 star (new rating)	no	3.5 star	-	2 star	no	no

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

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
AD109	6.2	30.2
AD211	10.7	24.1
AD301	52.4	29.6
AD302	45.3	46.6
AD303	33.2	46.4
AD309	18	50.8
AD801	35.4	33.8
AD802	27.4	25.6
AD807	24.9	26.4
AD808	51.1	58.8
ADG01	49.6	14.3
ADG02	57.9	36.4
ADG03	14.5	20.7
ADG07	9.5	16
ADG09	60.2	26.1
ADG11	11	14.4
ADG12	63.2	27.8
AD101, AD201	42.5	23.1
AD102, AD202	32.7	38.4
AD103, AD203	14.1	54
AD105, AD205	10.9	50.8
AD106, AD206	10.5	50.7
AD601, AD701	19.5	28.4
ADG05, ADG06	10	34.9
ADG08, ADG10	9	22.9
AD112, AD316, AD608	42.4	57.2
AD212, AD507, AD708	41.4	44.1

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
AD803, AD805, AD806	31.6	36.6
AD305, AD306, AD307, AD308	37.4	47.2
AD111, AD315, AD506, AD607, AD707	10.7	26.7
AD107, AD207, AD310, AD501, AD602, AD702	8.8	23.1
All other dwellings	11.2	31.9

(b) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	3 star (> 7.5 but ≤ 9 L/min)	4 star	4 star	no common laundry facility

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

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No. 1)	-	-	fluorescent	connected to lift call button	Yes
Lift car (No. 9)	-	-	fluorescent	connected to lift call button	Yes
Adelaide Lifts	no mechanical ventilation	-	fluorescent	motion sensors	Yes
Darwin Lifts	no mechanical ventilation	-	fluorescent	motion sensors	Yes
Recycling Rooms Adelaide	ventilation exhaust only	-	fluorescent	motion sensors	Yes
Recycling Rooms Perth	ventilation exhaust only	-	fluorescent	motion sensors	Yes
Stairs Adelaide	no mechanical ventilation	-	fluorescent	motion sensors	Yes
Adeladie G	ventilation supply only	time clock or BMS controlled	fluorescent	motion sensors	Yes
Hallway/lobby type Adeladie	ventilation supply only	time clock or BMS controlled	fluorescent	motion sensors	Yes

Central energy systems	Type	Specification
Central hot water system (No. 1)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Lift (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 11
Lift (No. 9)	gearless traction with V V V F motor	Number of levels (including basement): 11

2. Commitments for Residential flat buildings - Darwin

(a) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	-	5 star	-	-	-	-	-	-	-

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

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

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

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
DA106, DA206, DA306, DA506, DA606, DA706, DA806, DAG06	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no
DA108, DA109, DA208, DA209, DA308, DA309, DA508, DA509, DA607, DA608, DA707, DA708, DA807, DA808, DAG08, DAG09	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
DA101, DA102, DA103, DA105, DA107, DA201, DA202, DA203, DA205, DA207, DA301, DA302, DA303, DA305, DA307, DA501, DA502, DA503, DA505, DA507, DA601, DA602, DA603, DA605, DA701, DA702, DA703, DA705, DA801, DA802, DA803, DA805, DAG01, DAG02, DAG03, DAG05, DAG06	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	2.5 star (new rating)	no	3.5 star	-	2 star	no	no

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

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
DA507	41.5	44.2
DA801	27.5	54.1
DA802	30.6	46.3
DA803	22.4	34.7
DA805	27.2	35.1
DA806	42.9	55.9
DA807	52.8	55.4
DA808	55.2	46.1
DAG01	14	30.5
DAG02	7.7	20
DAG03	7.2	22
DAG05	25.4	39.9
DAG06	50.9	47
DAG06	20.7	28
DAG08	39.6	25
DAG09	14	26.6
DA107, DA207, DA307	27.6	46.4
DA108, DA208, DA308	52.1	46.1
DA508, DA607, DA707	56.6	57.2
DA101, DA201, DA301, DA501, DA601, DA701	5	25.9
DA102, DA202, DA302, DA502, DA602, DA702	11.6	42.9
DA103, DA203, DA303, DA503, DA603, DA703	4.2	29.1
DA105, DA205, DA305, DA505, DA605, DA705	8.2	30.6
DA106, DA206, DA306, DA506, DA606, DA706	21.2	49.4

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
All other dwellings	37.2	46.4

(b) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	3 star (> 7.5 but ≤ 9 L/min)	4 star	4 star	no common laundry facility

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

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No. 2)	-	-	fluorescent	connected to lift call button	Yes
Lift car (No. 10)	-	-	fluorescent	connected to lift call button	Yes
Recycling Rooms Darwin	ventilation exhaust only	-	fluorescent	motion sensors	Yes
Staris Darwin	no mechanical ventilation	-	fluorescent	motion sensors	Yes
DarwinG	ventilation supply only	time clock or BMS controlled	fluorescent	motion sensors	Yes
Hallway/lobby type Darwin	ventilation supply only	time clock or BMS controlled	fluorescent	motion sensors	Yes

Central energy systems	Type	Specification
Central hot water system (No. 2)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Lift (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 11
Lift (No. 10)	gearless traction with V V V F motor	Number of levels (including basement): 11

3. Commitments for Residential flat buildings - Perth

(a) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	-	5 star	-	-	-	-	-	-	-

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

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

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

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
PE302, PE502, PE602, PE702, PE802, PE902, PEG01, PEG11	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
P1002, PE202, PE209, PE210, PE211, PE301, PE309, PE310, PE311, PE501, PE509, PE510, PE511, PE601, PE609, PE610, PE611, PE701, PE709, PE710, PE711, PE801, PE809, PE810, PE811, PE901, PEG02, PEG03, PEG05, PEG06, PEG07, PEG08, PEG09, PEG10	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
P1001, P1003, P1005, PE201, PE203, PE205, PE206, PE207, PE208, PE303, PE305, PE306, PE307, PE308, PE503, PE505, PE506, PE507, PE508, PE603, PE605, PE606, PE607, PE608, PE703, PE705, PE706, PE707, PE708, PE803, PE805, PE806, PE807, PE808, PE903, PE905	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	2.5 star (new rating)	no	3.5 star	-	2 star	no	no

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

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
P1001	48.5	30.6
P1002	22.1	33.5
P1003	42.2	40.9
P1005	58	37.9
PE901	27.2	21.5
PE902	8.7	27.5
PE903	27	35.5
PE905	46.9	29.6
PEG01	20.3	56.6
PEG05	4.6	58.2
PEG06	30.5	51.4
PEG07	45	45.1
PEG11	36.5	44.8
PE203, PE303, PE503	3.9	48.8
PEG02, PEG03, PEG08, PEG09, PEG10	7	57
PE201, PE301, PE501, PE601, PE701, PE801	43.1	27.6
PE202, PE302, PE502, PE602, PE702, PE802	22	37
PE210, PE310, PE510, PE610, PE710, PE810	30.6	29.1
PE211, PE311, PE511, PE611, PE711, PE811	32.8	34.2
PE205, PE305, PE505, PE603, PE605, PE703, PE705, PE803	13.6	26.4
PE206, PE208, PE307, PE506, PE508, PE607, PE706, PE708, PE805, PE807	0.3	38.6
All other dwellings	4.9	58.8

(b) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	3 star (> 7.5 but ≤ 9 L/min)	4 star	4 star	no common laundry facility

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

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		✓	✓

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No. 3)	-	-	fluorescent	connected to lift call button	Yes
Lift car (No. 4)	-	-	fluorescent	connected to lift call button	Yes
Lift car (No. 5)	-	-	fluorescent	connected to lift call button	Yes
Perth Lifts	no mechanical ventilation	-	fluorescent	motion sensors	Yes
Main Garbage	ventilation exhaust only	-	fluorescent	motion sensors	Yes
Staris Perth	no mechanical ventilation	-	fluorescent	motion sensors	Yes
Perth G	ventilation supply only	time clock or BMS controlled	fluorescent	motion sensors	Yes
Hallway/lobby type Perth	ventilation supply only	time clock or BMS controlled	fluorescent	motion sensors	Yes

Central energy systems	Type	Specification
Central hot water system (No. 3)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Lift (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 11
Lift (No. 4)	gearless traction with V V V F motor	Number of levels (including basement): 21
Lift (No. 5)	gearless traction with V V V F motor	Number of levels (including basement): 21

4. Commitments for Residential flat buildings - Brisbane

(a) Dwellings

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

	Fixtures					Appliances		Individual pool				Individual spa		
Dwelling no.	All shower-heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish-washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
B201, B202, B203, B205	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	no	-	5 star	-	-	-	-	-	-	-
B206, B207, B208, B209, B210, B211	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	-	5 star	-	-	-	-	-	-	-

	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
B212, B213, B301, B302, B303, B305, B306, B307, B308, B309, B310, B311, B312, B313, B501, B502, B503, B505, B506, B507, B508, B509, B510, B511, B512, B513, B601, B602, B603, B605, B606, B607, B608, B609, B610, B611, B612, B613, B701, B702,	3 star (> 4.5 but <= 6 L/min)	4 star	4 star	4 star	-	-	5 star	-	-	-	-	-	-	-

	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
B703, B705, B706, B707, B708, B709, B710, B711, B712, B713, B801, B802, B803, B805, B806, B807, B808, B809, B810, B811, B812, B813, B901, B902, B903, B905, B906, B907, B908, B909, B910, B911, BG01, BG02, BG03, BG05, BG06, BG07, BG08, BG09,														

	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
BG10, BG11, BG12, B1001, B1002, B1003, B1005, B1006, B1007, B1008, B1009, B1010, B1011, B1101, B1102, B1103, B1105, B1106, B1107, B1108, B1109, B1110, B1201, B1202, B1203, B1205, B1206, B1207, B1208, B1209, B1210, B1301, B1302, B1303, B1305, B1306, B1307, B1308, B1309, B1310														

Dwelling no.	Alternative water source							
	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up

(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; (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		✓ ✓	✓

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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
B201, B202, B203, B205	central hot water system 4	individual fan, ducted to façade or roof	interlocked to light	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	interlocked to light

	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
B206, B207, B208, B209, B210, B211, B212, B213, B301, B302, B303, B305, B306, B307, B308, B309, B310, B311, B312, B313, B501, B502, B503, B505, B506, B507, B508, B509, B510, B511, B512, B513, B601, B602, B603, B605, B606, B607, B608, B609, B610,	central hot water system 4	individual fan, ducted to façade or roof	interlocked to light	individual fan, ducted to façade or roof	manual switch on/off	individual fan, ducted to façade or roof	interlocked to light

	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
B611, B612, B613, B701, B702, B703, B705, B706, B707, B708, B709, B710, B711, B712, B713, B801, B802, B803, B805, B806, B807, B808, B809, B810, B811, B812, B813, B901, B902, B903, B905, B906, B907, B908, B909, B910, B911, BG01, BG02, BG03, BG05,							

	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
BG06, BG07, BG08, BG09, BG10, BG11, BG12, B1001, B1002, B1003, B1005, B1006, B1007, B1008, B1009, B1010, B1011, B1101, B1102, B1103, B1105, B1106, B1107, B1108, B1109, B1110, B1201, B1202, B1203, B1205, B1206, B1207, B1208, B1209, B1210, B1301, B1302, B1303, B1305, B1306, B1307,							

	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
B1308, B1309, B1310							

	Cooling		Heating		Artificial lighting						Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
B205	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no
B201, B202, B203	-	-	-	-	-	-	-	-	-	-	-	-
B311, BG01, BG12	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
B208, B210, B211, B301, B303, B307, B309, B313, B501, B503, B506, B508, B509, B511, B601, B602, B606, B609, B612, B701, B702, B706, B708, B709, B712, B801, B802, B806, B808, B809, B812, B901, B902, B906, B908, B909, B911, BG02, BG11,	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

	Cooling		Heating		Artificial lighting						Natural lighting	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
B1003, B1005, B1007, B1010, B1011, B1102, B1106, B1107, B1109, B1202, B1203, B1206, B1209, B1210, B1302, B1306, B1307, B1309												

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
B206, B207, B209, B212, B213, B302, B305, B306, B308, B310, B312, B502, B505, B507, B510, B512, B513, B603, B605, B607, B608, B610, B611, B613, B703, B705, B707, B710, B711, B713, B803, B805, B807, B810, B811, B813, B903, B905, B907,	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	1-phase airconditioning 4.5 Star (new rating) (zoned)	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
B910, BG03, BG05, BG06, BG07, BG08, BG09, BG10, B1001, B1002, B1006, B1008, B1009, B1101, B1103, B1105, B1108, B1110, B1201, B1205, B1207, B1208, B1301, B1303, B1305, B1308, B1310												

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
B205	-	-	-	-	gas cooktop & electric oven	2.5 star (new rating)	no	3.5 star	-	2 star	no	no
B201, B202, B203	-	-	-	-	gas cooktop & electric oven	2.5 star (new rating)	no	3.5 star	-	2 star	-	-

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
B206, B207, B208, B209, B210, B211, B212, B213, B301, B302, B303, B305, B306, B307, B308, B309, B310, B311, B312, B313, B501, B502, B503, B505, B506, B507, B508, B509, B510, B511, B512, B513, B601, B602, B603, B605, B606, B607,	-	-	-	-	gas cooktop & electric oven	2.5 star (new rating)	no	3.5 star	-	2 star	no	no

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
B608, B609, B610, B611, B612, B613, B701, B702, B703, B705, B706, B707, B708, B709, B710, B711, B712, B713, B801, B802, B803, B805, B806, B807, B808, B809, B810, B811, B812, B813, B901, B902, B903, B905, B906, B907, B908, B909,												

	Individual pool		Individual spa		Appliances & other efficiency measures							
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
B910, B911, BG01, BG02, BG03, BG05, BG06, BG07, BG08, BG09, BG10, BG11, BG12, B1001, B1002, B1003, B1005, B1006, B1007, B1008, B1009, B1010, B1011, B1101, B1102, B1103, B1105, B1106, B1107, B1108, B1109, B1110, B1201, B1202, B1203, B1205, B1206, B1207,												

Dwelling no.	Individual pool		Individual spa		Appliances & other efficiency measures							
	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
B1208, B1209, B1210, B1301, B1302, B1303, B1305, B1306, B1307, B1308, B1309, B1310												

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

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
<p>(g) Where there is an in-slab heating or cooling system, the applicant must:</p> <p>(aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or</p> <p>(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.</p>	✓	✓	✓
<p>(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.</p>	✓	✓	✓

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
B201	8	30.5
B202	16	11.8
B203	25.9	35.6
B205	22.1	56.8
B303	25.9	35.6
B313	8.2	21.0
B1007	6.6	17.8
B1301	17.9	36.9
B1302	29.3	30.7
B1303	52	32.5
B1305	35.8	49.9
B1306	23.7	18.8
B1307	31.9	28.6
B1309	28	17.3
B1310	18.8	32.9
BG01, BG12	7.3	57.6
BG02, BG11	24.5	50.2

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
BG03, BG10	50.3	41.6
BG05, BG09	13.9	51.6
B1103, B1203	40.9	25.5
B1105, B1205	18.1	40.8
B1106, B1206	6.7	17.5
BG06, BG07, BG08	6.8	56.8
B901, B1001, B1101, B1201	4.2	31.1
B902, B1002, B1102, B1202	15.6	24.4
B908, B1008, B1107, B1207	18.4	23.1
B910, B1010, B1109, B1209	12.8	15.9
B911, B1011, B1110, B1210	4.8	24.5
B213, B513, B613, B713, B813	8.2	21
B301, B501, B601, B701, B801	8	30.5
B302, B502, B602, B702, B802	12	29.4
B909, B1009, B1108, B1208, B1308	22.3	50.7
B209, B309, B509, B609, B709, B809	17.5	29.7
B210, B310, B510, B610, B710, B810	5	19.1
B211, B311, B511, B611, B711, B811	18.1	44.9
B212, B312, B512, B612, B712, B812	15.2	11.8
B503, B603, B703, B803, B903, B1003	22.7	53.2
B305, B505, B605, B705, B805, B905, B1005	22.1	56.8
B206, B306, B506, B606, B706, B806, B906, B1006	12.1	58.6

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
All other dwellings	6.4	18.5

(b) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	3 star (> 7.5 but ≤ 9 L/min)	4 star	4 star	no common laundry facility

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

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No. 6)	-	-	fluorescent	connected to lift call button	Yes
Lift car (No. 7)	-	-	fluorescent	connected to lift call button	Yes
Lift car (No. 8)	-	-	fluorescent	connected to lift call button	Yes
Brisbane Lifts	no mechanical ventilation	-	fluorescent	motion sensors	Yes
Recycling Rooms Brisbane	ventilation exhaust only	-	fluorescent	motion sensors	Yes
Staris Brisbane	no mechanical ventilation	-	fluorescent	motion sensors	Yes
Brisbane G	ventilation supply only	time clock or BMS controlled	fluorescent	motion sensors	Yes
Hallway/lobby type Brisbane	ventilation supply only	time clock or BMS controlled	fluorescent	motion sensors	Yes

Central energy systems	Type	Specification
Central hot water system (No. 4)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Lift (No. 6)	gearless traction with V V V F motor	Number of levels (including basement): 21
Lift (No. 7)	gearless traction with V V V F motor	Number of levels (including basement): 14
Lift (No. 8)	gearless traction with V V V F motor	Number of levels (including basement): 14

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

(b) Common areas and central systems/facilities

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	3 star (> 7.5 but ≤ 9 L/min)	4 star	4 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Central water tank - rainwater or stormwater (No. 1)	42000	To collect run-off from at least: - 1354 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 1868 square metres of common landscaped area on the site - car washing in 0 car washing bays on the site

Central systems	Size	Configuration	Connection (to allow for...)
Pool (No. 1)	Volume: 223 kLs	Location: Other Pool shaded: no	-

(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
Level B1	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	none	Yes
Level B2	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	none	Yes
Level B3	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	none	Yes

Central energy systems	Type	Specification
Pool (No. 1)	Heating source: gas	Solar collector area (minimum, in square metres): 100 Pump controlled by timer: yes

Notes

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

Legend

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