

Thermal Comfort & BASIX Assessment

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Mirvac Projects Pty Ltd
Proposed Residential Development

To be built at:

2 Figtree Drive
SYDNEY OLYMPIC PARK NSW 2127

Issue	File Ref	Description	Author	Date
A	16-0252	DRAFT: Thermal comfort and BASIX assessment	HE/DG/PV	21/09/16
B	16-0252	Thermal comfort and BASIX assessment	HE/DG/PV	29/09/16
C	16-0816	Updated to reflect plan changes	HE	16/11/16
D	17-0535	Updated to reflect plan changes	HE	08/06/17

This report has been prepared by Efficient Living Pty Ltd on behalf of our client Mirvac Projects. Efficient Living prepares all reports in accordance with the BASIX Thermal Comfort Protocol and is backed by professional indemnity insurance. This report takes into account our client's instructions and preferred building inclusions.



Prepared for Mirvac Pty Ltd

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Introduction Efficient Living has investigated the estimated thermal comfort, water and energy usage of the proposed development to be built at 2 Figtree Drive, Sydney Olympic Park.

Heating and cooling loads for the development have been determined using BERS thermal simulation software. The report is based on the architectural drawings provided by BVN Architects. For further details, refer to the individual BASIX certificates and Efficient Living inclusions summary respectively.

Analysis The BASIX assessment is divided into three sections, each independently measuring the efficiency of the development. These are Water, Thermal Comfort and Energy.

BASIX requires a minimum target of 40% for the Water section. A BERS pass or fail is required for the thermal comfort section and a minimum required target of 20% in the energy section.

Water The proposed development has achieved the BASIX Water target of 40%. The water usage of the development is calculated based on the number and efficiency of permanent fixtures and appliances such as taps, showerheads and toilets, the dish washer and clothes washing machine.

The size of the rain tank and number of connections has a huge impact on your water score as does the area of gardens and lawns and whether or not low water plant species are incorporated.

Thermal comfort Thermal Comfort targets are set by the Department of Planning in the form of heating and cooling caps. The buildings thermal physics is measured using BERS thermal performance assessment tools. This equates an expected level of energy consumption to heat and cool each dwelling per annum expressed in MJ (megajoules) per square meter of floor area.

Each unit has individual heating and cooling caps and a weighted average heating and cooling load for the whole development. The weighted average caps are a lot harder to achieve than the individual unit caps.

Energy The proposed development has achieved the energy target of 20% to pass this section. The energy usage of the development is calculated based on the efficiency of fixed appliances that will be used. This includes the air conditioning system, hot water system, lighting, exhaust fans, cook top, oven, and clothes drying facilities.



Inclusions summary The inclusions as outlined in the table below have been incorporated in each unit to allow them to reach their environmental sustainability targets.

Thermal comfort Average heating loads are 4% below all allowable BASIX targets
Average cooling loads are 60% below all allowable BASIX targets

Glazing doors/windows Aluminium framed single clear glazing to all units:
U-Value: 6.70 (equal to or lower than) SHGC: 0.57 ($\pm 10\%$)
A – awning windows + hinged glazed doors
U-Value: 6.70 (equal to or lower than) SHGC: 0.70 ($\pm 10\%$)
B – sliding doors/windows + fixed glazing + louvres windows
Aluminium frame performance clear glazing as per assessor certificate
U-Value: 4.80 (equal to or lower than) SHGC: 0.51 ($\pm 10\%$)
A – awning windows + hinged glazed doors
U-Value: 4.80 (equal to or lower than) SHGC: 0.59 ($\pm 10\%$)
B – sliding doors/windows + fixed glazing + louvres windows
Given values are NFRC, total window values

Roof Concrete roof
No insulation
Default colour modelled

Ceiling Plasterboard ceilings, R2.0 insulation affixed to underside of slab where roof above
Plasterboard ceilings, R1.2 bulk insulation where balcony above
Plasterboard ceilings, no insulation where neighbouring units are above
Note: Loss of ceiling insulation due to penetrations from down lights have been accounted for in accordance with BCA Technical Notes, assume non-ventilated LED down lights IC abutted and covered.

External wall Brick veneer, R2.0 insulation, plasterboard lining
Pre cast concrete, R2.0 insulation, plasterboard lining
Metal cladding fixed to precast concrete, R2.0 insulation, plasterboard lining
Metal clad on lightweight frame, R2.0 insulation, plasterboard lining

	Locations as per elevations Default colour modelled
Inter tenancy walls	Between units – 75mm Hebel power panel, no insulation Adjacent to hallways and services – 75mm Hebel power panel, R1.2 insulation to all units Adjacent to lift shafts and stairs – 100mm insitu concrete, R1.2 insulation
Walls within dwellings	Plasterboard on studs, no insulation
Floors	Concrete with no insulation where units or retail are below Suspended concrete with an R1.2 insulation as per assessor certificate Default floor coverings modelled
BASIX water inclusions	Score 61/40
Fixtures within units	Showerheads: High flow (>7.5L but <=9 L/min) Toilets: 4.0 star Kitchen taps: 5.0 star Bathroom vanity taps: 5.0 star
Appliances within units	Dishwashers: 3.5 stars
Central rainwater storage	Tank size 10,000L Collecting from 500m ² of non-trafficable roof Connected to irrigation of all common area landscaping
Reticulated water supply	Sydney Olympic Park Authority, connected to 1 car wash bay and fire sprinkler systems, all toilets within units and all washing machine connections within units
BASIX energy inclusions	Score 20/20
Central hot water system	Central gas fired boiler R1.0 insulation to ring main and supply risers
Lift motors	All lifts to have gearless traction with VVVF motor Due to the limitations of the BASIX tool two lifts have been combined in building 2



Appliances & other efficiency measures within units

Gas cooktop & electric oven

Dishwashers: 3.5 star

Clothes dryers: 2.0 star

Ventilated fridge space

Heating & cooling within units

All units to have individual, single phase, reverse cycle air conditioning to living areas and bedrooms

An EER or COP of 3.0 – 3.5 in both heating and cooling mode

Day / night zoning has been nominated

Artificial lighting within units

LED lighting to be installed throughout

Ventilation within units

Bathrooms – Individual fan, ducted to façade – interlocked to light with run on timer

Laundries – Individual fan, ducted to façade – interlocked to light with run on timer

Kitchen range hood – Individual fan, ducted to façade – manual on/off switch

Artificial Lighting to common areas

Car park – Fluorescent lights with zoned switching and motion sensors

Lifts – LED lights connected to lift call button

Building managers room – Fluorescent lights with manual on / manual off switch

Garbage rooms – Fluorescent lights with motion sensors

WC – LED lights with manual on / manual off switch

Other plant or service rooms – Fluorescent lights with manual on / manual off switch

Car park exhaust room – Fluorescent lights with manual on / manual off switch

Car park supply room – Fluorescent lights with manual on / manual off switch

Community room – LED lights with manual on / manual off switch

Bicycle storage area – Fluorescent lights with motion sensors

Ground floor lobbies – LEDs to remain on continuously

Hallways – LEDs with zoned switching and motion sensors

Ventilation to common areas

Car park – Supply & exhaust air with a carbon monoxide monitor & VSD fan

Garbage rooms – Exhaust air, running continuously

Other plant or service rooms – Supply air, running continuously



Community room – Air conditioning system, time clock or BMS controlled

Car park exhaust – No mechanical ventilation

Car park supply room - No mechanical ventilation

Bicycle storage area – Low level supply air, time clock or BMS controlled

Ground floor lobbies – air conditioning system, time clock or BMS controlled

Hallways – supply air, time clock or BMS controlled

(Please Note: All air-conditioned common areas must comply with NCC, NSW sub-section Ja glazing and insulation requirements. Independent reports should be requested prior to CC if relevant).

Alternative energy No BASIX requirement

Documents referenced BVN Architects:

 AR-DA-2102(K).pdf  AR-DA-2121(H).pdf
 AR-DA-2103(K).pdf  AR-DA-2122(K).pdf
 AR-DA-2104(L).pdf  AR-DA-2123(H).pdf
 AR-DA-2105(L).pdf  AR-DA-2124(K).pdf
 AR-DA-2106(L).pdf  AR-DA-2125(H).pdf
 AR-DA-2107(L).pdf  AR-DA-2126(H).pdf
 AR-DA-2108(K).pdf  AR-DA-2127(H).pdf
 AR-DA-2109(K).pdf  AR-DA-2128(K).pdf
 AR-DA-2110(G).pdf  AR-DA-2129(K).pdf
 AR-DA-2111(J).pdf  AR-DA-2130(I).pdf
 AR-DA-2112(H).pdf  AR-DA-2131(J).pdf
 AR-DA-2113(H).pdf  AR-DA-2132(J).pdf
 AR-DA-2114(K).pdf  AR-DA-2133(H).pdf
 AR-DA-2115(K).pdf  AR-DA-2134(H).pdf
 AR-DA-2116(K).pdf  AR-DA-2135(H).pdf
 AR-DA-2117(K).pdf  AR-DA-2136(K).pdf
 AR-DA-2118(K).pdf  AR-DA-2137(D).pdf
 AR-DA-2119(H).pdf  AR-DA-2138(B).pdf  AR-DA-2140(B).pdf
 AR-DA-2120(H).pdf  AR-DA-2139(B).pdf  AR-DA-2141(B).pdf



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Thermal Comfort Results

Proposed Residential Development
2 Figtree Drive
Sydney Olympic Park NSW 2127



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Issued in accordance with **BASIX** Thermal Comfort Simulation Method

Certificate #: 0001566030						VIC/BDAV/12/1473	
Thermal comfort Upgrades			As Per Assessor Certificate				
		Upgrade 1. - Performance glazing where required below					
		Upgrade 2. - R1.2 open sub floor insulation					
		Upgrade 3. - R2.5 ceiling insulation					
Thermal performance specifications							
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
Building 1							
10101	2	112	0	50	27	4.4	Performance glazing throughout
10102	3	126	0	35	22	5.7	None
10103	2	107	0	31	18	6.2	None
10105	2	107	0	31	18	6.2	None
10106	2	107	0	38	19	5.7	None
10301	2	74	0	60	23	4.6	Performanceglazing to living room balcony glazing R1.2 open sub floor insulation
10302	2	83	0	39	21	5.4	R1.2 open sub floor insulation
10303	1	52	0	31	20	6.1	R1.2 open sub floor insulation
10305	1	52	0	30	20	6.2	R1.2 open sub floor insulation
10306	1	52	0	30	20	6.2	R1.2 open sub floor insulation
10307	2	83	0	45	31	4.4	R1.2 open sub floor insulation
10308	2	76	0	50	32	4.3	R1.2 open sub floor insulation
10401	2	74	0	65	19	4.2	Performance glazing to living room balcony glazing
10402	2	80	0	48	15	5.3	None
10403	1	51	0	39	14	5.9	None
10404	1	51	0	38	13	5.9	None
10405	1	51	0	37	14	6.1	None
10406	2	80	0	37	22	5.4	None
10407	2	74	0	55	25	4.4	None
10501	2	74	0	66	19	4.4	Performance glazing to living room balcony glazing
10502	2	83	0	43	14	5.7	None
10503	1	52	0	40	13	5.9	None
10505	1	52	0	39	13	5.9	None
10506	1	52	0	38	14	5.9	None
10507	2	83	0	38	22	5.4	None
10508	2	74	0	55	25	4.4	None
10601	2	74	0	66	19	4.2	Performance glazing to living room balcony glazing

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		Upgrade 1. - Performance glazing where required below									
		Upgrade 2. - R1.2 open sub floor insulation									
		Upgrade 3. - R2.5 ceiling insulation									
Thermal performance specifications											
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades				
		Con.	Uncon.	Heat	Cool (Sens & Lat)						
10602	2	83	0	43	14	5.6	None				
10603	1	52	0	40	13	5.9	None				
10605	1	52	0	39	13	5.9	None				
10606	1	52	0	38	14	5.9	None				
10607	2	83	0	38	22	5.4	None				
10608	2	74	0	56	24	4.4	None				
10701	2	74	0	64	18	4.3	Performance glazing living, dining, kitchen				
10702	2	83	0	44	14	5.6	None				
10703	1	52	0	41	12	5.9	None				
10705	1	52	0	40	12	5.9	None				
10706	1	52	0	39	13	5.9	None				
10707	2	83	0	39	21	5.4	None				
10708	2	74	0	56	24	4.4	None				
10801	2	74	0	65	18	4.3	Performance glazing living, dining, kitchen				
10802	2	83	0	44	14	5.5	None				
10803	1	52	0	41	12	5.9	None				
10805	1	52	0	41	12	5.9	None				
10806	1	52	0	39	13	5.9	None				
10807	2	83	0	39	21	5.4	None				
10808	2	74	0	57	23	4.4	None				
10901	2	74	0	66	17	4.2	Performance glazing living, dining, kitchen				
10902	2	83	0	45	14	5.5	None				
10903	1	52	0	46	13	5.4	None				
10905	1	52	0	41	12	5.9	None				
10906	1	52	0	40	13	5.9	None				
10907	2	83	0	40	20	5.4	None				
10908	2	74	0	57	22	4.4	None				
11001	2	76	0	66	15	3.9	Performance glazing living, dining, kitchen				
11002	2	83	0	53	14	4.9	None				
11003	1	51	0	51	11	5.3	None				
11005	1	51	0	51	11	5.3	None				
11006	1	51	0	51	11	5.3	None				

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Thermal comfort Upgrades		As Per Assessor Certificate							
		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
11007	2	80	0	48	17	5.2			
11008	2	74	0	60	22	4.3	None		
11101	3	108	0	63	15	4.4	None		
11102	2	79	0	47	13	5.4	None		
11103	2	79	0	48	14	5.3	None		
11105	3	108	0	53	19	4.7	None		
11201	3	108	0	61	14	4.5	Low-e glazing throughout		
11202	2	79	0	58	13	4.8	None		
11203	2	79	0	57	12	4.9	None		
11205	3	108	0	51	15	5.0	Low-e glazing throughout		
Building 2									
20101	2	81	0	40	39	4.4	None		
20102	3	102	0	44	51	3.8	None		
20103	2	81	0	38	19	5.6	None		
20105	1	56	0	58	36	3.9	None		
20106	2	76	0	26	14	6.9	None		
20107	2	82	0	49	31	4.4	None		
20108	2	83	0	39	43	4.3	None		
20109	2	75	0	46	16	5.3	None		
20201	2	81	0	42	35	4.4	None		
20202	3	102	0	46	49	3.8	None		
20203	2	81	0	26	16	6.7	None		
20205	1	56	0	58	34	3.9	None		
20206	1	61	0	57	20	4.4	R1.2 open sub floor insulation		
20207	1	54	0	39	31	4.8	R1.2 open sub floor insulation		
20208	2	76	0	30	11	6.9	None		
20209	2	82	0	51	31	4.3	None		
20210	2	83	0	41	42	4.3	None		
20111	2	75	0	48	16	5.2	None		
20301	2	81	0	47	26	4.7	None		
20302	3	102	0	51	36	4.1	None		
20303	2	81	0	32	16	6.3	None		

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		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
20305	1	56	0	62	25	4.1	None		
20306	1	61	0	43	16	5.4	None		
20307	2	71	0	40	15	5.8	None		
20308	2	76	0	31	11	6.8	None		
20309	2	82	0	51	30	4.3	None		
20310	2	83	0	46	35	4.3	None		
20311	2	75	0	52	12	5.2	None		
20401	2	81	0	48	26	4.6	None		
20402	3	102	0	51	37	4.0	None		
20403	2	81	0	32	15	6.4	None		
20405	1	56	0	63	24	4.1	None		
20406	1	61	0	59	16	4.6	None		
20407	2	71	0	40	15	5.8	None		
20408	2	76	0	32	11	6.8	None		
20409	2	82	0	52	29	4.3	None		
20410	2	83	0	47	35	4.3	None		
20411	2	75	0	53	12	5.1	None		
20501	2	81	0	49	26	4.6	None		
20502	3	102	0	51	37	4.0	None		
20503	2	81	0	32	15	6.4	None		
20505	2	56	0	56	22	4.4	None		
20506	1	61	0	59	16	4.6	None		
20507	2	71	0	38	15	5.9	None		
20508	2	76	0	32	10	6.8	None		
20509	2	82	0	53	28	4.3	None		
20510	2	83	0	47	34	4.3	None		
20511	2	75	0	54	11	5.1	None		
20601	2	81	0	49	25	4.5	None		
20602	3	102	0	54	35	3.9	None		
20603	2	81	0	30	15	6.4	None		
20605	1	56	0	56	22	4.4	None		
20606	1	61	0	57	15	4.7	None		

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Thermal comfort Upgrades		As Per Assessor Certificate							
		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
20607	2	71	0	38	15	5.9	None		
20608	2	76	0	32	10	6.8	None		
20609	2	82	0	53	27	4.4	None		
20610	2	83	0	47	33	4.3	None		
20611	2	75	0	54	11	5.1	None		
20701	2	81	0	50	25	4.6	None		
20702	3	102	0	54	35	3.9	None		
20703	2	81	0	30	16	6.4	None		
20705	1	56	0	57	21	4.4	None		
20706	1	61	0	56	15	4.8	None		
20707	2	71	0	35	16	6.1	None		
20708	2	76	0	30	10	6.9	None		
20709	2	82	0	53	27	4.4	None		
20710	2	83	0	48	33	4.3	None		
20711	2	75	0	55	11	5.0	None		
20801	2	81	0	50	25	4.5	None		
20802	3	102	0	54	35	3.9	None		
20803	2	81	0	29	16	6.4	None		
20805	1	56	0	56	21	4.4	None		
20806	1	61	0	54	15	4.9	None		
20807	2	71	0	34	16	6.2	None		
20808	2	76	0	28	10	7.1	None		
20809	2	82	0	52	27	4.4	None		
20810	2	83	0	49	33	4.3	None		
20811	2	75	0	55	11	5.0	None		
20901	2	81	0	51	24	4.4	None		
20902	3	102	0	54	34	3.9	None		
20903	2	81	0	28	16	6.6	None		
20905	1	56	0	56	21	4.4	None		
20906	1	61	0	54	15	4.9	None		
20907	2	71	0	33	15	6.3	None		
20908	2	76	0	27	10	7.2	None		

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Thermal performance specifications							
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
20909	2	82	0	49	25	4.6	None
20910	2	83	0	49	32	4.3	None
20911	2	75	0	56	10	5.0	None
21001	2	81	0	54	20	4.6	None
21002	3	102	0	57	29	4.1	None
21003	2	81	0	30	14	6.7	None
21005	1	56	0	56	21	4.4	None
21006	1	61	0	56	14	4.9	None
21007	2	71	0	35	13	6.3	None
21008	2	76	0	31	10	6.9	None
21009	2	82	0	57	20	4.4	None
21010	2	83	0	62	30	3.9	None
21011	2	75	0	62	9	4.8	None
21101	2	81	0	54	20	4.6	None
21102	3	102	0	57	29	4.1	None
21103	2	81	0	33	12	6.5	None
21105	1	56	0	56	21	4.4	None
21106	1	61	0	55	13	4.9	None
21107	2	71	0	35	13	6.3	None
21108	3	117	0	63	15	4.4	None
21109	3	119	0	58	13	4.8	Performance glazing living, dining, kitchen
21201	2	81	0	54	20	4.6	None
21202	3	113	0	63	40	3.6	None
21203	2	78	0	50	17	4.9	None
21205	2	77	0	35	13	6.3	None
21206	1	61	0	56	14	4.9	None
21207	1	54	0	45	17	5.3	None
21208	1	51	0	42	11	5.9	None
21209	1	51	0	42	11	5.9	None
21210	2	82	0	45	19	5.1	R1.2 open sub floor insulation
21211	2	83	0	60	30	3.9	R1.2 open sub floor insulation
21212	2	75	0	57	9	4.9	None

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		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
21301	2	81	0	55	20	4.6	None		
21302	3	113	0	66	38	3.4	None		
21303	2	78	0	51	18	4.9	None		
21305	2	77	0	43	13	5.7	None		
21306	1	61	0	56	14	4.9	None		
21307	1	54	0	46	18	5.2	None		
21308	1	51	0	49	11	5.4	None		
21309	1	51	0	42	11	5.9	None		
21310	2	82	0	43	19	5.3	None		
21311	2	83	0	50	27	4.4	None		
21312	2	75	0	59	9	4.9	None		
21401	2	81	0	55	20	4.5	None		
21402	3	113	0	66	38	3.4	None		
21403	2	78	0	51	18	4.9	None		
21405	2	77	0	44	13	5.7	None		
21406	1	61	0	56	14	4.8	None		
21407	1	54	0	46	17	5.2	None		
21408	1	51	0	49	11	5.4	None		
21409	1	51	0	42	11	5.9	None		
21410	2	82	0	44	18	5.3	None		
21411	2	83	0	51	27	4.4	None		
21412	2	75	0	59	9	4.9	None		
21501	2	81	0	55	20	4.5	None		
21502	3	113	0	62	34	3.8	None		
21503	2	78	0	52	17	4.9	None		
21505	2	77	0	44	12	5.7	None		
21506	1	61	0	56	14	4.8	None		
21507	1	54	0	46	17	5.2	None		
21508	1	51	0	49	11	5.4	None		
21509	1	51	0	42	11	5.9	None		
21510	2	82	0	44	18	5.3	None		
21511	2	83	0	51	27	4.4	None		

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Thermal comfort Upgrades		As Per Assessor Certificate							
		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
21512	2	75	0	59	10	4.9	None		
21601	2	81	0	55	20	4.5	None		
21602	3	113	0	62	35	3.8	None		
21603	2	78	0	52	17	4.9	None		
21604	2	77	0	44	12	5.7	None		
21605	1	61	0	56	14	4.8	None		
21607	1	54	0	46	17	5.2	None		
21608	1	51	0	49	11	5.4	None		
21609	1	51	0	43	11	5.9	None		
21610	2	82	0	43	18	5.3	None		
21611	2	83	0	51	26	4.4	None		
21612	2	75	0	59	10	4.9	None		
21701	2	81	0	56	20	4.4	None		
21702	3	113	0	62	34	3.8	None		
21703	2	78	0	52	17	4.9	None		
21705	2	77	0	44	12	5.7	None		
21706	1	61	0	56	13	4.8	None		
21707	1	54	0	46	17	5.2	None		
21708	1	51	0	50	11	5.4	None		
21709	1	51	0	43	11	5.8	None		
21710	2	82	0	44	19	5.3	None		
21711	2	83	0	51	27	4.4	None		
21712	2	75	0	59	9	4.9	None		
21801	2	81	0	56	19	4.4	None		
21802	3	113	0	62	34	3.8	None		
21803	2	78	0	52	17	4.9	None		
21805	2	77	0	44	12	5.7	None		
21806	1	61	0	57	13	4.8	None		
21807	1	54	0	47	17	5.2	None		
21808	1	51	0	50	11	5.4	None		
21809	1	51	0	43	11	5.8	None		
21810	2	82	0	44	18	5.3	None		

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Thermal comfort Upgrades		As Per Assessor Certificate							
		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
21811	2	83	0	52	26	4.4	None		
21812	2	75	0	59	10	4.9	None		
21901	2	81	0	56	20	4.4	None		
21902	3	113	0	62	34	3.8	None		
21903	2	78	0	52	17	4.9	None		
21905	2	77	0	44	12	5.7	None		
21906	1	61	0	57	14	4.8	None		
21907	1	54	0	45	17	5.3	None		
21908	1	51	0	50	11	5.4	None		
21909	1	51	0	43	11	5.8	None		
21910	2	82	0	44	18	5.3	None		
21911	2	83	0	52	26	4.4	None		
21912	2	75	0	59	9	4.9	None		
22001	2	81	0	56	20	4.4	None		
22002	3	113	0	63	34	3.8	None		
22003	2	78	0	53	17	4.8	None		
22005	2	77	0	44	12	5.7	None		
22006	1	61	0	57	13	4.8	None		
22007	1	54	0	45	17	5.3	None		
22008	1	51	0	50	11	5.4	None		
22009	1	51	0	43	11	5.8	None		
22010	2	82	0	44	18	5.3	None		
22011	2	83	0	52	26	4.4	None		
22012	2	75	0	59	9	4.9	None		
22101	2	81	0	56	20	4.4	None		
22102	3	113	0	63	34	3.8	None		
22103	2	78	0	53	18	4.8	None		
22105	2	77	0	45	12	5.7	None		
22106	1	61	0	57	13	4.8	None		
22107	1	54	0	45	17	5.3	None		
22108	1	51	0	50	11	5.4	None		
22109	1	51	0	44	11	5.8	None		

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Thermal comfort Upgrades			As Per Assessor Certificate				
		Upgrade 1. - Performance glazing where required below					
		Upgrade 2. - R1.2 open sub floor insulation					
		Upgrade 3. - R2.5 ceiling insulation					
Thermal performance specifications							
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
22110	2	82	0	44	18	5.3	None
22111	2	83	0	52	26	4.4	None
22112	2	75	0	60	9	4.9	None
22201	2	81	0	56	19	4.4	None
22202	3	113	0	63	34	3.8	None
22203	2	78	0	53	17	4.8	None
22205	2	77	0	45	12	5.7	None
22206	1	61	0	60	13	4.7	None
22207	1	54	0	48	17	5.1	None
22208	1	51	0	53	11	5.2	None
22209	1	51	0	44	11	5.8	None
22210	2	82	0	44	18	5.3	None
22211	2	83	0	52	25	4.4	None
22212	2	75	0	60	9	4.9	None
22301	2	81	0	57	19	4.4	None
22302	3	113	0	63	34	3.8	None
22303	2	78	0	53	17	4.9	None
22305	2	77	0	45	12	5.6	None
22306	3	110	0	39	12	6.1	None
22307	1	50	0	51	12	5.3	None
22308	1	50	0	48	12	5.4	None
22309	2	82	0	44	18	5.3	None
22310	2	83	0	53	25	4.4	None
22311	2	75	0	60	9	4.9	None
22401	2	81	0	60	18	4.4	Performance glazing to living,kitchen dining area
22402	3	113	0	61	24	4.2	Performance glazing to living,kitchen dining area
22403	2	78	0	66	16	4.3	None
22405	2	77	0	58	11	4.9	None
22406	3	110	0	39	12	6.1	None
22407	1	50	0	51	12	5.2	None
22408	1	50	0	50	13	5.3	None
22409	2	82	0	45	18	5.3	None

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Thermal comfort Upgrades		As Per Assessor Certificate					
		Upgrade 1. - Performance glazing where required below					
		Upgrade 2. - R1.2 open sub floor insulation					
		Upgrade 3. - R2.5 ceiling insulation					
Thermal performance specifications							
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
22410	2	83	0	53	25	4.4	None
22411	2	75	0	60	9	4.9	None
22501	1	54	0	61	32	3.9	Performance glazing throughout
22502	3	113	0	47	17	5.2	None
22503	1	50	0	51	12	5.2	None
22505	1	50	0	50	12	5.3	None
22506	2	82	0	45	18	5.3	None
22507	2	83	0	53	25	4.4	None
22508	2	75	0	54	10	5.2	None
22601	1	54	0	61	32	3.9	Performance glazing throughout
22602	3	110	0	52	12	5.2	None
22603	1	50	0	51	12	5.2	None
22605	1	50	0	50	12	5.3	None
22606	2	82	0	45	18	5.3	None
22607	2	83	0	53	25	4.4	None
22608	2	75	0	54	10	5.2	None
22701	1	54	0	61	32	3.9	Performance glazing throughout
22702	3	110	0	52	12	3.8	None
22703	1	50	0	51	12	5.2	None
22705	1	50	0	50	12	5.3	None
22706	2	82	0	45	18	5.3	None
22707	2	83	0	53	25	4.4	None
22708	2	75	0	54	9	5.2	None
22801	1	54	0	62	32	3.9	Performance glazing throughout
22802	3	110	0	52	12	5.2	None
22803	1	50	0	51	12	5.2	None
22805	1	50	0	50	12	5.3	
22806	2	82	0	45	18	5.3	None
22807	2	83	0	53	26	4.4	None
22808	2	75	0	55	10	5.2	None
22901	1	54	0	62	32	3.9	Performance glazing throughout
22902	3	110	0	52	12	5.1	None

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Thermal comfort Upgrades		As Per Assessor Certificate							
		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
22903	1	50	0	52	12	5.2	None		
22905	1	50	0	50	12	5.3	None		
22906	2	82	0	48	18	5.1	None		
22907	2	83	0	53	26	4.4	None		
22908	2	75	0	55	9	5.2	None		
23001	1	54	0	62	32	3.9	Performance glazing throughout		
23002	3	110	0	52	12	5.2	None		
23003	1	50	0	52	12	5.2	None		
23005	1	50	0	50	12	5.3	None		
23006	2	75	0	61	9	4.8	None		
23007	2	83	0	53	25	4.4	None		
23008	2	75	0	55	9	5.2	None		
23101	1	54	0	62	32	3.9	Performance glazing throughout		
23102	3	109	0	50	14	5.1	None		
23103	3	102	0	39	11	6.1	None		
23105	2	82	0	48	17	5.1	None		
23106	2	83	0	54	25	4.4	None		
23107	2	75	0	46	8	5.9	None		
23201	1	54	0	62	32	3.9	Performance glazing throughout		
23202	3	109	0	50	15	5.1	None		
23203	3	102	0	39	11	6.1	None		
23205	2	82	0	48	17	5.1	None		
23206	2	83	0	54	25	4.4	None		
23207	2	75	0	55	9	5.2	None		
23301	3	133	0	66	19	4.2	Performance glazing throughout		
23302	3	109	0	50	14	5.1	None		
23303	3	102	0	39	11	6.2	None		
23305	2	82	0	48	17	5.1	None		
23306	2	83	0	54	26	4.4	None		
23401	3	133	0	66	19	4.2	Performance glazing throughout		
23402	3	109	0	50	14	5.1	None		
23403	3	102	0	39	11	6.1	None		

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Thermal comfort Upgrades		As Per Assessor Certificate					
		Upgrade 1. - Performance glazing where required below					
		Upgrade 2. - R1.2 open sub floor insulation					
		Upgrade 3. - R2.5 ceiling insulation					
Thermal performance specifications							
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
23405	2	82	0	48	17	5.1	None
23406	2	83	0	54	25	4.4	None
23501	3	133	0	66	18	4.2	Performance glazing throughout R2.5 ceiling insulation
23502	3	109	0	64	15	4.4	None
23503	3	102	0	54	11	5.1	None
23505	2	82	0	60	17	4.4	None
23506	2	83	0	66	24	3.9	R2.5 ceiling insulation
Building 3							
30101	2	64	0	53	26	4.4	None
30102	1	59	0	36	46	4.3	None
30103	1	59	0	40	19	5.4	None
30105	2	83	0	53	13	5.1	None
30201	2	79	0	47	17	5.2	None
30202	1	59	0	38	43	4.3	None
30203	1	59	0	36	19	5.8	None
30205	1	50	0	53	15	4.9	None
30206	1	50	0	59	15	4.6	None
30207	1	50	0	59	21	4.4	None
30208	3	118	0	38	22	5.4	R1.2 open sub floor insulation
30209	2	87	0	59	21	4.4	R1.2 open sub floor insulation
30301	2	79	0	44	16	5.4	None
30302	1	59	0	44	29	4.7	None
30303	1	59	0	36	19	5.8	None
30305	1	50	0	54	15	4.9	None
30306	1	50	0	54	15	4.9	None
30307	1	50	0	55	16	4.8	None
30308	3	118	0	35	17	5.9	None
30309	2	87	0	50	16	5.0	None
30401	2	79	0	44	16	5.4	None
30402	1	59	0	45	28	4.7	None
30403	1	56	0	46	15	5.4	None

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Thermal comfort Upgrades		As Per Assessor Certificate									
		Upgrade 1. - Performance glazing where required below									
		Upgrade 2. - R1.2 open sub floor insulation									
		Upgrade 3. - R2.5 ceiling insulation									
Thermal performance specifications											
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades				
		Con.	Uncon.	Heat	Cool (Sens & Lat)						
30405	1	50	0	55	14	4.9	None				
30406	1	50	0	55	14	4.9	None				
30407	1	50	0	55	17	4.7	None				
30408	3	118	0	36	16	5.9	None				
30409	2	87	0	52	15	4.9	None				
30501	2	79	0	45	16	5.4	None				
30501	1	59	0	46	27	4.7	None				
30503	1	56	0	47	15	5.3	None				
30505	1	50	0	59	15	4.6	None				
30506	1	50	0	55	14	4.9	None				
30507	1	50	0	56	16	4.7	None				
30508	3	118	0	36	16	5.9	None				
30509	2	87	0	52	15	4.9	None				
30601	2	79	0	46	15	5.4	None				
30602	1	59	0	46	26	4.7	None				
30603	1	56	0	47	15	5.3	None				
30605	1	50	0	59	15	4.6	None				
30606	1	50	0	56	14	4.8	None				
30607	1	50	0	57	16	4.6	None				
30608	3	118	0	37	16	5.9	None				
30609	2	87	0	52	15	4.9	None				
30701	2	79	0	46	15	5.4	None				
30702	1	59	0	55	25	4.4	None				
30703	1	56	0	48	15	5.3	None				
30705	1	50	0	60	15	4.6	None				
30706	1	50	0	57	14	4.8	None				
30707	1	50	0	58	16	4.6	None				
30708	3	118	0	37	16	5.9	None				
30709	2	87	0	53	14	4.9	None				
30801	1	53	0	60	39	3.7	Performance glazing to living, dining, kitchen				
30802	1	49	0	59	18	4.4	None				
30803	2	83	0	43	23	5.0	None				

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Thermal comfort Upgrades			As Per Assessor Certificate				
		Upgrade 1. - Performance glazing where required below					
		Upgrade 2. - R1.2 open sub floor insulation					
		Upgrade 3. - R2.5 ceiling insulation					
Thermal performance specifications							
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
30805	3	112	0	64	23	4.1	Performance glazing to living, dining, kitchen
30806	2	76	0	58	44	3.6	None
30901	1	53	0	66	37	3.6	Performance glazing throughout R2.5 ceiling insulation
30902	1	49	0	54	16	4.8	Performance glazing to living, dining ,kitchen
30903	2	83	0	57	22	4.4	None
30905	3	112	0	61	14	4.4	Performance glazing throughout R2.5 ceiling insulation
30906	2	76	0	66	41	3.4	None
Building 4							
50101	2	76	0	34	28	5.3	None
50102	1	49	0	62	25	4.1	None
50103	2	75	0	31	20	5.9	None
50105	1	55	0	34	36	4.9	None
50106	2	75	0	47	26	4.7	None
50107	1	49	0	59	25	4.2	None
50108	1	51	0	61	24	4.2	None
50201	2	98	0	64	18	4.3	Performance glazing to first floor and master bedroom
50202	3	147	0	56	46	3.6	None
50203	2	97	0	22	21	6.6	None
50205	2	97	0	22	22	6.6	None
50206	2	97	0	22	22	6.6	None
50207	2	97	0	22	22	6.6	None
50208	2	101	0	27	25	5.9	R1.2 open sub floor insulation
50209	1	63	0	65	23	4.0	Performance glazing throughout and R1.2 open sub floor insulation
50210	2	76	0	31	29	5.4	None
50211	1	49	0	59	28	4.1	None
50212	2	75	0	33	16	6.3	None
50213	1	55	0	29	37	5.0	None
50215	2	75	0	44	25	4.8	None

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Thermal comfort Upgrades		As Per Assessor Certificate									
		Upgrade 1. - Performance glazing where required below									
		Upgrade 2. - R1.2 open sub floor insulation									
		Upgrade 3. - R2.5 ceiling insulation									
Thermal performance specifications											
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades				
		Con.	Uncon.	Heat	Cool (Sens & Lat)						
50216	1	55	0	66	18	4.4	None				
50217	1	51	0	57	24	4.3	None				
50301	2	76	0	35	22	5.7	None				
50302	1	49	0	60	26	4.1	None				
50303	2	75	0	33	16	6.2	None				
50305	1	55	0	30	37	4.9	None				
50306	2	75	0	49	18	4.9	None				
50307	1	55	0	63	17	4.4	None				
50308	1	51	0	58	17	4.5	None				
50401	2	56	0	57	20	4.4	Low-e glazing throughout				
50402	2	79	0	28	11	7.0	None				
50403	1	51	0	23	11	7.4	None				
50405	1	51	0	23	11	7.4	None				
50406	1	51	0	23	11	7.4	None				
50407	1	51	0	23	11	7.4	None				
50408	2	81	0	40	21	5.4	R1.2 open sub floor insulation				
50489	1	51	0	55	20	4.5	Performance glazing throughout and R1.2 open sub floor insulation				
50410	2	76	0	35	21	5.7	None				
50411	1	49	0	61	26	4.0	None				
50412	2	75	0	34	15	6.2	None				
50413	1	55	0	35	30	5.2	None				
50415	2	75	0	49	17	5.0	None				
50416	1	55	0	63	17	4.4	None				
50417	1	51	0	58	17	4.5	None				
50501	2	55	0	57	18	4.4	None				
50502	2	80	0	29	11	6.9	None				
50503	1	52	0	32	10	6.8	None				
50505	1	51	0	27	10	7.2	None				
50506	1	52	0	27	10	7.2	None				
50507	1	52	0	27	10	7.2	None				
50508	2	81	0	42	20	5.3	None				

Thermal Comfort Results

Proposed Residential Development
2 Figtree Drive
Sydney Olympic Park NSW 2127



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Issued in accordance with **BASIX** Thermal Comfort Simulation Method

Certificate #: 0001566030						VIC/BDIV/12/1473			
Thermal comfort Upgrades		As Per Assessor Certificate							
		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
50509	1	51	0	56	19	4.5	Performance glazing throughout		
50510	2	76	0	36	21	5.7	None		
50511	1	49	0	61	26	4.0	None		
50512	2	75	0	34	15	6.2	None		
50513	1	55	0	35	29	5.1	None		
50515	2	75	0	49	17	5.0	None		
50516	1	55	0	64	17	4.3	None		
50517	1	51	0	59	17	4.4	None		
50601	2	55	0	58	18	4.4	None		
50602	2	80	0	29	10	6.9	None		
50603	1	52	0	33	10	6.7	None		
50605	1	51	0	28	10	7.2	None		
50606	1	52	0	27	10	7.2	None		
50607	1	52	0	28	10	7.2	None		
50608	2	81	0	42	20	5.8	None		
50609	1	51	0	57	19	4.4	Performance glazing throughout		
50610	2	76	0	36	20	5.6	None		
50611	1	49	0	62	26	4.0	None		
50612	2	75	0	34	15	6.2	None		
50613	1	55	0	36	28	5.1	None		
50616	2	75	0	50	16	5.0	None		
50616	1	55	0	65	17	4.3	None		
50617	1	51	0	60	16	4.4	None		
50701	2	55	0	58	18	4.4	None		
50702	2	80	0	30	10	6.9	None		
50703	1	52	0	34	10	6.7	None		
50705	1	51	0	28	10	7.1	None		
50706	1	52	0	28	10	7.1	None		
50707	1	52	0	28	10	7.2	None		
50708	2	81	0	43	19	5.3	None		
50709	1	51	0	57	19	4.4	Performance glazing throughout		
50710	2	76	0	37	20	5.6	None		

Thermal Comfort Results

Proposed Residential Development
2 Figtree Drive
Sydney Olympic Park NSW 2127



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Issued in accordance with **BASIX** Thermal Comfort Simulation Method

Certificate #: 0001566030						VIC/BDIV/12/1473			
Thermal comfort Upgrades		As Per Assessor Certificate							
		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
50711	1	49	0	63	26	3.9	None		
50712	2	75	0	35	15	6.1	None		
50713	1	55	0	49	26	4.4	None		
50715	2	75	0	50	15	5.1	None		
50716	1	55	0	65	16	4.3	None		
50717	1	51	0	61	16	4.4	None		
50801	2	55	0	66	43	4.3	None		
50802	2	82	0	47	10	5.6	None		
50803	1	52	0	31	10	6.9	None		
50805	1	51	0	32	10	6.9	None		
50806	1	52	0	31	10	6.9	None		
50807	1	52	0	32	10	6.9	None		
50808	2	81	0	59	18	4.4	None		
50809	1	51	0	66	18	4.2	Performance glazing throughout		
50810	2	76	0	37	20	5.6	None		
50811	1	49	0	63	26	3.9	None		
50812	2	75	0	35	15	6.1	None		
50813	2	75	0	51	16	4.9	None		
50815	1	55	0	66	16	4.3	None		
50816	1	51	0	61	16	4.4	None		
50901	3	115	0	59	21	4.3	Performance glazing to living, dining, kitchen		
50902	3	105	0	55	20	4.4	Performance glazing to living, dining, kitchen		
50903	2	76	0	38	20	5.6	None		
50905	1	49	0	64	25	3.9	None		
50906	2	75	0	36	15	6.1	None		
50907	2	75	0	51	15	4.9	None		
50908	1	55	0	65	16	4.3	None		
50909	1	51	0	61	16	4.4	None		
51001	1	51	0	65	23	4.0	None		
51002	2	69	0	49	17	5.0	None		
51003	1	51	0	50	9	5.4	None		
51005	1	51	0	50	9	5.4	None		

Thermal Comfort Results
Proposed Residential Development
2 Figtree Drive
Sydney Olympic Park NSW 2127



Issued in accordance with **BASIX** Thermal Comfort Simulation Method

Certificate #: 0001566030						VIC/BDIV/12/1473			
Thermal comfort Upgrades		As Per Assessor Certificate							
		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
51006	2	88	0	51	15	5.0	None		
51007	2	76	0	38	20	5.6	None		
51008	1	49	0	65	18	4.2	None		
51009	2	82	0	58	27	4.2	None		
51010	3	117	0	64	21	4.2	Performance glazing throughout		
51011	1	55	0	63	33	3.8	None		
51012	1	51	0	64	13	4.4	None		
51101	1	51	0	65	22	4.1	None		
51102	2	69	0	49	18	4.9	None		
51103	1	51	0	50	9	5.4	None		
51105	1	51	0	50	9	5.4	None		
51106	2	88	0	51	15	4.9	None		
51107	2	76	0	40	17	5.6	None		
51108	1	49	0	65	18	4.2	None		
51109	2	82	0	58	27	4.2	None		
51110	3	117	0	64	21	4.2	Performance glazing throughout		
51111	1	55	0	63	33	3.9	None		
51112	1	51	0	65	12	4.4	None		
51201	1	51	0	66	22	4.0	None		
51202	2	69	0	49	18	4.9	None		
51203	1	51	0	51	9	5.4	None		
51205	1	51	0	51	9	5.4	None		
51206	2	88	0	51	15	4.9	None		
51207	2	76	0	40	17	5.6	None		
51208	1	49	0	66	19	4.2	None		
51209	2	82	0	58	27	4.2	None		
51210	3	117	0	64	20	4.2	Performance glazing throughout		
51211	1	55	0	63	33	3.8	None		
51212	1	51	0	65	12	4.4	None		
51301	1	52	0	64	22	4.1	None		
51302	2	74	0	49	17	5.1	None		
51303	1	51	0	51	10	5.4	None		

Thermal Comfort Results

Proposed Residential Development
2 Figtree Drive
Sydney Olympic Park NSW 2127



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Issued in accordance with **BASIX** Thermal Comfort Simulation Method

Certificate #: 0001566030						VIC/BDAV/12/1473			
Thermal comfort Upgrades		As Per Assessor Certificate							
		Upgrade 1. - Performance glazing where required below							
		Upgrade 2. - R1.2 open sub floor insulation							
		Upgrade 3. - R2.5 ceiling insulation							
Thermal performance specifications									
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades		
		Con.	Uncon.	Heat	Cool (Sens & Lat)				
51305	1	51	0	50	10	5.4	None		
51306	2	88	0	47	16	5.3	None		
51307	2	76	0	41	17	5.5	None		
51308	1	49	0	66	19	4.2	None		
51309	2	82	0	58	27	4.2	None		
51310	3	117	0	64	20	4.2	Performance glazing throughout		
51311	1	50	0	64	33	3.8	None		
51312	1	51	0	65	12	4.4	None		
51401	1	52	0	64	22	4.1	None		
51402	2	74	0	45	17	5.3	None		
51403	1	51	0	52	10	5.3	None		
51405	1	51	0	50	10	5.4	None		
51406	2	88	0	47	16	5.3	None		
51407	2	76	0	41	17	5.5	None		
51408	1	49	0	66	19	4.2	None		
51409	2	82	0	59	27	4.1	None		
51410	3	117	0	64	21	4.2	Performance glazing throughout living kitchen area master		
51411	1	57	0	59	11	4.8	None		
51412	1	51	0	66	12	4.4	None		
51501	1	52	0	65	22	4.1	None		
51502	2	74	0	45	17	5.3	None		
51503	1	52	0	52	10	5.3	None		
51505	1	51	0	51	10	5.4	None		
51506	2	88	0	48	15	5.2	None		
51507	2	76	0	41	17	5.6	None		
51508	1	49	0	66	18	4.2	None		
51509	2	82	0	59	27	4.1	None		
51510	3	117	0	64	21	4.2	Performance glazing throughout living kitchen area master		
51511	1	57	0	59	11	4.8	None		
51512	1	51	0	66	12	4.4	None		
51601	1	52	0	65	22	4.1	None		

Thermal Comfort Results

Proposed Residential Development
2 Figtree Drive
Sydney Olympic Park NSW 2127



Issued in accordance with **BASIX** Thermal Comfort Simulation Method

Certificate #: 0001566030						VIC/BDIV/12/1473	
Thermal comfort Upgrades		As Per Assessor Certificate					
		Upgrade 1. - Performance glazing where required below					
		Upgrade 2. - R1.2 open sub floor insulation					
		Upgrade 3. - R2.5 ceiling insulation					
Thermal performance specifications							
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
51602	1	74	0	46	17	5.3	None
51603	1	52	0	56	10	5.0	None
51605	1	51	0	51	10	5.4	None
51606	2	88	0	48	15	5.2	None
51607	2	76	0	41	17	5.5	None
51608	1	50	0	66	18	4.2	None
51609	2	82	0	60	27	4.1	None
51610	3	117	0	64	21	4.2	Performance glazing living, kitchen, dining and master bedroom
51611	1	57	0	60	11	4.8	None
51612	1	51	0	66	12	4.4	None
51701	1	52	0	65	22	4.1	None
51702	2	85	0	59	15	4.5	None
51703	2	78	0	55	12	4.9	None
51705	3	88	0	47	17	5.2	None
51706	2	76	0	41	17	5.4	None
51707	1	50	0	56	51	3.4	None
51708	2	82	0	60	27	4.1	None
51709	3	117	0	64	21	4.2	Performance glazing living, kitchen, dining and master bedroom
51710	1	57	0	60	11	4.8	None
51711	1	51	0	65	12	4.4	None
51801	1	52	0	65	22	4.0	None
51802	2	85	0	60	15	4.5	None
51803	2	78	0	56	12	4.9	None
51805	3	88	0	47	17	5.2	None
51806	2	76	0	41	17	5.4	None
51807	1	50	0	56	51	3.4	None
51808	2	82	0	60	27	4.1	None
51809	3	117	0	64	21	4.2	Performance glazing living, kitchen, dining and master bedroom
51810	1	57	0	60	44	4.8	None
51811	1	51	0	66	12	4.4	None

Thermal Comfort Results

Proposed Residential Development
2 Figtree Drive
Sydney Olympic Park NSW 2127



Issued in accordance with **BASIX** Thermal Comfort Simulation Method

Certificate #: 0001566030						VIC/BDAV/12/1473	
Thermal comfort Upgrades			As Per Assessor Certificate				
		Upgrade 1. - Performance glazing where required below					
			Upgrade 2. - R1.2 open sub floor insulation				
			Upgrade 3. - R2.5 ceiling insulation				
Thermal performance specifications							
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
51901	1	52	0	66	22	4.0	None
51902	2	85	0	60	15	4.4	None
51903	2	78	0	56	12	4.9	None
51905	3	88	0	47	17	5.2	None
51906	2	76	0	42	17	5.4	None
51907	1	50	0	56	51	3.4	None
51908	2	82	0	60	27	4.1	None
51909	3	117	0	65	21	4.2	Performance glazing living, kitchen, dining and master bedroom
51910	1	57	0	60	11	4.8	None
51911	1	51	0	66	12	4.4	None
52001	1	52	0	66	21	4.1	None
52002	2	85	0	60	15	4.4	None
52003	2	78	0	56	12	4.9	None
52005	3	88	0	47	17	5.2	None
52006	2	76	0	42	17	5.4	None
52007	1	50	0	56	50	3.4	None
52008	2	82	0	60	26	4.1	None
52009	3	117	0	65	20	4.2	Performance glazing living, kitchen, dining and master bedroom
52010	1	57	0	60	11	4.7	None
52011	1	51	0	66	12	4.4	None
52101	1	52	0	66	21	4.1	None
52102	2	85	0	60	15	4.5	None
52103	2	78	0	56	12	4.9	None
52105	3	88	0	47	17	5.2	None
52106	2	76	0	42	17	5.4	None
52107	1	50	0	55	50	3.4	None
52108	2	82	0	60	26	4.1	None
52109	3	117	0	65	19	4.2	Performance glazing living, kitchen, dining and master bedroom
52110	1	57	0	61	11	4.7	None
52111	1	51	0	65	12	4.4	None

Thermal Comfort Results

Proposed Residential Development
2 Figtree Drive
Sydney Olympic Park NSW 2127



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Issued in accordance with **BASIX** Thermal Comfort Simulation Method

Certificate #: 0001566030						VIC/BDAV/12/1473	
Thermal comfort Upgrades		As Per Assessor Certificate					
		Upgrade 1. - Performance glazing where required below					
		Upgrade 2. - R1.2 open sub floor insulation					
		Upgrade 3. - R2.5 ceiling insulation					
Thermal performance specifications							
Unit number	Number of Bedrooms	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
52201	1	52	0	66	21	4.0	None
52202	2	85	0	60	15	4.4	None
52203	2	78	0	56	12	4.9	None
52205	3	88	0	47	17	5.2	None
52206	2	76	0	42	17	5.4	None
52207	1	50	0	55	51	3.4	None
52208	2	82	0	61	26	4.1	None
52209	3	117	2	65	20	4.2	Performance glazing living, kitchen, dining and master bedroom
52210	1	57	0	61	11	4.7	None
52211	1	51	0	65	12	4.4	None
52301	1	52	0	64	20	4.2	Performance glazing living, dining ,kitchen
52302	2	85	0	58	14	4.7	Performance glazing living, dining, kitchen
52303	2	78	0	66	11	4.4	None
52305	3	88	0	57	16	4.7	None
52306	2	76	0	53	16	4.9	51
52307	1	50	0	65	47	3.4	R2.5 ceiling insulation
52308	2	82	0	62	20	4.3	Performance glazing throughout living and kitchen
52309	3	117	0	66	17	4.2	Performance glazing throughout and an R2.5 ceiling insulation
52310	1	57	0	65	11	4.4	Performance glazing living, dining, kitchen
52311	1	51	0	63	11	4.6	Performance glazing throughout

Nationwide House Energy Rating Scheme* — Class 2 summary



Certificate number: **0001566030**

Certificate Date: **08 Jun 2017**

★ Average Star rating: **5.0**

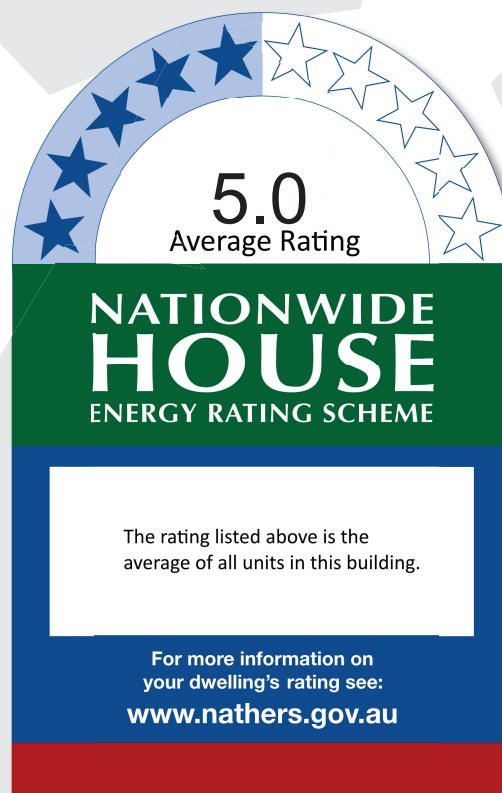
Assessor details

Accreditation number: **VIC/BDAV/12/1473**
Name: **Tracey Cools**
Organisation: **Efficient Living**
Email: **admin@efficientliving.com.au**
Phone: **(02) 9970 6181**
Declaration of interest: **None**
Software: **BERS Pro v4.3.0.2 (3.13)**
BERS Pro v4.3.0.1 (3.13)
AAO: **BDAV**

Dwelling details

Street: **2 Figtree Drive**
Suburb: **Sydney Olympic Park**
State: **NSW**
Postcode: **2127**

Scan to access this certificate online and confirm this is valid.



Summary of all dwellings

Certificate Details

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0000798769-03	1.01.2	35	22	56	5.7
0000798801-03	1.01.3	31	18	49	6.2
0000798835-03	1.01.4	31	18	49	6.2
0000798868-03	1.01.5	38	19	57	5.7
0000798892-03	1.03.1	59	23	82	4.3
0000798926-03	1.03.2	39	21	59	5.4
0000798967-03	1.03.3	31	20	51	6.1
0000798991-03	1.03.4	30	20	50	6.2
0000799023-03	1.03.5	30	20	50	6.2
0000799056-03	1.03.6	45	31	76	4.4
0000799080-03	1.03.7	49	32	81	4.3
0000799114-03	1.04.1	65	19	85	4.2
0000799148-03	1.04.2	48	15	63	5.3
0000799171-03	1.04.3	39	14	52	5.9
0000799205-03	1.04.4	38	13	51	5.9

BASIX[®]Certificate

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

Multi Dwelling

Certificate number: 650643M_10

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 18/09/2014 published by the Department. This document is available at www.basix.nsw.gov.au

This certificate is a revision of certificate number 650643M_03 lodged with the consent authority or certifier on 24 September 2015 with application SSD 7033.

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

Secretary

Date of issue: Thursday, 15 June 2017

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



Project summary

Project name	2 Fig Tree Drive, Sydney Olympic Park_10
Street address	2 Fig Tree Drive Sydney Olympic Park 2127
Local Government Area	Auburn Council
Plan type and plan number	deposited 787402
Lot no.	22
Section no.	-
No. of residential flat buildings	4
No. of units in residential flat buildings	705
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Project score

Water	✓ 61	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 20	Target 20

Water score comprises:

- Sydney Olympic Park Authority reticulated alternative water: 27.0
- Other water efficiency commitments: 34.0

Certificate Prepared by

Name / Company Name: Efficient Living Pty Ltd

ABN (if applicable): 82 116 346 082

Description of project

Project address

Project name	2 Fig Tree Drive, Sydney Olympic Park_10
Street address	2 Fig Tree Drive Sydney Olympic Park 2127
Local Government Area	Auburn Council
Plan type and plan number	deposited 787402
Lot no.	22
Section no.	-

Project type

No. of residential flat buildings	4
No. of units in residential flat buildings	705
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Site details

Site area (m ²)	12697
Roof area (m ²)	7237.48
Non-residential floor area (m ²)	1642.5
Residential car spaces	596
Non-residential car spaces	101

Common area landscape

Common area lawn (m ²)	1007.0
Common area garden (m ²)	2538.0
Area of indigenous or low water use species (m ²)	0.0

Assessor details

Assessor number	BDAV/12/1473
Certificate number	0001566030
Climate zone	56

Project score

Water	✓ 61	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 20	Target 20

Water score comprises:

- Sydney Olympic Park Authority reticulated alternative water: 27.0
- Other water efficiency commitments: 34.0

Description of project

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

Residential flat buildings - Building 3, 62 dwellings, 9 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)
30101	2	64.0	0.0	0.0	0.0
30201	2	79.0	0.0	0.0	0.0
30206	1	50.0	0.0	0.0	0.0
30301	2	79.0	0.0	0.0	0.0
30306	1	50.0	0.0	0.0	0.0
30401	2	79.0	0.0	0.0	0.0
30406	1	50.0	0.0	0.0	0.0
30501	2	79.0	0.0	0.0	0.0
30506	1	50.0	0.0	0.0	0.0
30601	2	79.0	0.0	0.0	0.0
30606	1	50.0	0.0	0.0	0.0
30701	2	79.0	0.0	0.0	0.0
30706	1	50.0	0.0	0.0	0.0
30801	1	53.0	0.0	0.0	0.0
30806	2	76.0	0.0	0.0	0.0
30905	1	112.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
30102	1	59.0	0.0	0.0	0.0
30202	1	59.0	0.0	0.0	0.0
30207	1	50.0	0.0	0.0	0.0
30302	1	59.0	0.0	0.0	0.0
30307	1	50.0	0.0	0.0	0.0
30402	1	59.0	0.0	0.0	0.0
30407	1	50.0	0.0	0.0	0.0
30502	1	59.0	0.0	0.0	0.0
30507	1	50.0	0.0	0.0	0.0
30602	1	59.0	0.0	0.0	0.0
30607	1	50.0	0.0	0.0	0.0
30702	1	59.0	0.0	0.0	0.0
30707	1	50.0	0.0	0.0	0.0
30802	1	49.0	0.0	0.0	0.0
30901	2	53.0	0.0	0.0	0.0
30906	1	76.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
30103	1	59.0	0.0	0.0	0.0
30203	1	59.0	0.0	0.0	0.0
30208	3	118.0	0.0	0.0	0.0
30303	1	59.0	0.0	0.0	0.0
30308	3	118.0	0.0	0.0	0.0
30403	1	56.0	0.0	0.0	0.0
30408	3	118.0	0.0	0.0	0.0
30503	1	56.0	0.0	0.0	0.0
30508	3	118.0	0.0	0.0	0.0
30603	1	56.0	0.0	0.0	0.0
30608	3	118.0	0.0	0.0	0.0
30703	1	56.0	0.0	0.0	0.0
30708	3	118.0	0.0	0.0	0.0
30803	2	83.0	0.0	0.0	0.0
30902	1	49.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
30105	2	83.0	0.0	0.0	0.0
30205	1	50.0	0.0	0.0	0.0
30209	2	87.0	0.0	0.0	0.0
30305	1	50.0	0.0	0.0	0.0
30309	2	87.0	0.0	0.0	0.0
30405	1	50.0	0.0	0.0	0.0
30409	2	87.0	0.0	0.0	0.0
30505	1	50.0	0.0	0.0	0.0
30509	2	87.0	0.0	0.0	0.0
30605	1	50.0	0.0	0.0	0.0
30609	2	87.0	0.0	0.0	0.0
30705	1	50.0	0.0	0.0	0.0
30709	2	87.0	0.0	0.0	0.0
30805	3	112.0	0.0	0.0	0.0
30903	1	83.0	0.0	0.0	0.0

Residential flat buildings - Building 1, 69 dwellings, 12 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)
10101	2	112.0	0.0	0.0	0.0
10106	2	107.0	0.0	0.0	0.0
10305	1	52.0	0.0	0.0	0.0
10401	2	74.0	0.0	0.0	0.0
10405	1	51.0	0.0	0.0	0.0
10502	2	83.0	0.0	0.0	0.0
10507	2	83.0	0.0	0.0	0.0
10603	1	52.0	0.0	0.0	0.0
10608	2	74.0	0.0	0.0	0.0
10705	1	52.0	0.0	0.0	0.0
10801	2	74.0	0.0	0.0	0.0
10806	1	52.0	0.0	0.0	0.0
10902	2	83.0	0.0	0.0	0.0
10907	2	83.0	0.0	0.0	0.0
11003	1	51.0	0.0	0.0	0.0
11008	2	74.0	0.0	0.0	0.0
11105	3	108.0	0.0	0.0	0.0
11205	3	108.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
10102	3	126.0	0.0	0.0	0.0
10301	2	74.0	0.0	0.0	0.0
10306	1	52.0	0.0	0.0	0.0
10402	2	80.0	0.0	0.0	0.0
10406	2	80.0	0.0	0.0	0.0
10503	1	52.0	0.0	0.0	0.0
10508	2	74.0	0.0	0.0	0.0
10605	1	52.0	0.0	0.0	0.0
10701	2	74.0	0.0	0.0	0.0
10706	1	52.0	0.0	0.0	0.0
10802	2	83.0	0.0	0.0	0.0
10807	2	83.0	0.0	0.0	0.0
10903	1	52.0	0.0	0.0	0.0
10908	2	74.0	0.0	0.0	0.0
11005	1	51.0	0.0	0.0	0.0
11101	3	108.0	0.0	0.0	0.0
11201	3	108.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
10103	2	107.0	0.0	0.0	0.0
10302	2	83.0	0.0	0.0	0.0
10307	2	83.0	0.0	0.0	0.0
10403	1	51.0	0.0	0.0	0.0
10407	2	74.0	0.0	0.0	0.0
10505	1	52.0	0.0	0.0	0.0
10601	2	74.0	0.0	0.0	0.0
10606	1	52.0	0.0	0.0	0.0
10702	2	83.0	0.0	0.0	0.0
10707	2	83.0	0.0	0.0	0.0
10803	1	52.0	0.0	0.0	0.0
10808	2	74.0	0.0	0.0	0.0
10905	1	52.0	0.0	0.0	0.0
11001	2	76.0	0.0	0.0	0.0
11006	1	51.0	0.0	0.0	0.0
11102	2	79.0	0.0	0.0	0.0
11202	2	79.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
10105	2	107.0	0.0	0.0	0.0
10303	1	52.0	0.0	0.0	0.0
10308	2	76.0	0.0	0.0	0.0
10404	1	51.0	0.0	0.0	0.0
10501	2	74.0	0.0	0.0	0.0
10506	1	52.0	0.0	0.0	0.0
10602	2	83.0	0.0	0.0	0.0
10607	2	83.0	0.0	0.0	0.0
10703	1	52.0	0.0	0.0	0.0
10708	2	74.0	0.0	0.0	0.0
10805	1	52.0	0.0	0.0	0.0
10901	2	74.0	0.0	0.0	0.0
10906	1	52.0	0.0	0.0	0.0
11002	2	83.0	0.0	0.0	0.0
11007	2	80.0	0.0	0.0	0.0
11103	2	79.0	0.0	0.0	0.0
11203	2	79.0	0.0	0.0	0.0

Residential flat buildings - Building 2, 316 dwellings, 35 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)
20101	2	81.0	0.0	0.0	0.0
20106	2	76.0	0.0	0.0	0.0
20201	2	81.0	0.0	0.0	0.0
20206	1	61.0	0.0	0.0	0.0
20210	2	83.0	0.0	0.0	0.0
20303	2	81.0	0.0	0.0	0.0
20308	2	76.0	0.0	0.0	0.0
20401	2	81.0	0.0	0.0	0.0
20406	1	61.0	0.0	0.0	0.0
20410	2	83.0	0.0	0.0	0.0
20503	2	81.0	0.0	0.0	0.0
20508	2	76.0	0.0	0.0	0.0
20601	2	81.0	0.0	0.0	0.0
20606	1	61.0	0.0	0.0	0.0
20610	2	83.0	0.0	0.0	0.0
20703	2	81.0	0.0	0.0	0.0
20708	2	76.0	0.0	2.0	0.0
20801	2	81.0	0.0	6.0	0.0
20806	1	61.0	0.0	0.0	0.0
20810	2	83.0	0.0	0.0	0.0
20903	2	81.0	0.0	0.0	0.0
20908	2	76.0	0.0	0.0	0.0
21001	2	81.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
20102	3	102.0	0.0	0.0	0.0
20107	2	82.0	0.0	0.0	0.0
20202	3	102.0	0.0	0.0	0.0
20207	1	54.0	0.0	0.0	0.0
20211	2	75.0	0.0	0.0	0.0
20305	1	56.0	0.0	0.0	0.0
20309	2	82.0	0.0	0.0	0.0
20402	3	102.0	0.0	0.0	0.0
20407	2	71.0	0.0	0.0	0.0
20411	2	75.0	0.0	0.0	0.0
20505	2	56.0	0.0	0.0	0.0
20509	2	82.0	0.0	0.0	0.0
20602	3	102.0	0.0	0.0	0.0
20607	2	71.0	0.0	0.0	0.0
20611	2	75.0	0.0	0.0	0.0
20705	1	56.0	0.0	7.0	0.0
20709	2	82.0	0.0	3.0	0.0
20802	3	102.0	0.0	13.0	0.0
20807	2	71.0	0.0	0.0	0.0
20811	2	75.0	0.0	0.0	0.0
20905	1	56.0	0.0	0.0	0.0
20909	2	82.0	0.0	0.0	0.0
21002	3	102.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
20103	2	81.0	0.0	0.0	0.0
20108	2	83.0	0.0	0.0	0.0
20203	2	81.0	0.0	0.0	0.0
20208	2	76.0	0.0	0.0	0.0
20301	2	81.0	0.0	0.0	0.0
20306	1	61.0	0.0	0.0	0.0
20310	2	83.0	0.0	0.0	0.0
20403	2	81.0	0.0	0.0	0.0
20408	2	76.0	0.0	0.0	0.0
20501	2	81.0	0.0	0.0	0.0
20506	1	61.0	0.0	0.0	0.0
20510	2	83.0	0.0	0.0	0.0
20603	2	81.0	0.0	0.0	0.0
20608	2	76.0	0.0	0.0	0.0
20701	2	81.0	0.0	0.0	0.0
20706	1	61.0	0.0	7.0	0.0
20710	2	83.0	0.0	3.0	0.0
20803	2	81.0	0.0	12.0	0.0
20808	2	76.0	0.0	0.0	0.0
20901	2	81.0	0.0	0.0	0.0
20906	1	61.0	0.0	0.0	0.0
20910	2	83.0	0.0	0.0	0.0
21003	2	81.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
20105	1	56.0	0.0	0.0	0.0
20109	2	75.0	0.0	0.0	0.0
20205	1	56.0	0.0	0.0	0.0
20209	2	82.0	0.0	0.0	0.0
20302	3	102.0	0.0	0.0	0.0
20307	2	71.0	0.0	0.0	0.0
20311	2	75.0	0.0	0.0	0.0
20405	1	56.0	0.0	0.0	0.0
20409	2	82.0	0.0	0.0	0.0
20502	3	102.0	0.0	0.0	0.0
20507	2	71.0	0.0	0.0	0.0
20511	2	75.0	0.0	0.0	0.0
20605	1	56.0	0.0	0.0	0.0
20609	2	82.0	0.0	0.0	0.0
20702	3	102.0	0.0	0.0	0.0
20707	2	71.0	0.0	2.0	0.0
20711	2	75.0	0.0	0.0	0.0
20805	1	56.0	0.0	0.0	0.0
20809	2	82.0	0.0	0.0	0.0
20902	3	102.0	0.0	0.0	0.0
20907	2	71.0	0.0	0.0	0.0
20911	2	75.0	0.0	0.0	0.0
21005	1	56.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
21006	1	61.0	0.0	0.0	0.0
21010	2	83.0	0.0	0.0	0.0
21103	2	81.0	0.0	0.0	0.0
21108	3	117.0	0.0	0.0	0.0
21203	2	78.0	0.0	0.0	0.0
21208	1	51.0	0.0	0.0	0.0
21212	2	75.0	0.0	0.0	0.0
21305	2	77.0	0.0	0.0	0.0
21309	1	51.0	0.0	0.0	0.0
21401	2	81.0	0.0	0.0	0.0
21406	1	61.0	0.0	0.0	0.0
21410	2	82.0	0.0	0.0	0.0
21502	3	113.0	0.0	0.0	0.0
21507	1	54.0	0.0	0.0	0.0
21511	2	83.0	0.0	0.0	0.0
21603	2	78.0	0.0	0.0	0.0
21608	1	51.0	0.0	0.0	0.0
21612	2	75.0	0.0	0.0	0.0
21705	2	77.0	0.0	0.0	0.0
21709	1	51.0	0.0	0.0	0.0
21801	2	81.0	0.0	0.0	0.0
21806	1	61.0	0.0	0.0	0.0
21810	2	82.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
21007	2	71.0	0.0	0.0	0.0
21011	2	75.0	0.0	0.0	0.0
21105	1	56.0	0.0	0.0	0.0
21109	3	119.0	0.0	0.0	0.0
21205	2	77.0	0.0	0.0	0.0
21209	1	51.0	0.0	0.0	0.0
21301	2	81.0	0.0	0.0	0.0
21306	1	61.0	0.0	0.0	0.0
21310	2	82.0	0.0	0.0	0.0
21402	3	113.0	0.0	0.0	0.0
21407	1	54.0	0.0	0.0	0.0
21411	2	83.0	0.0	0.0	0.0
21503	2	78.0	0.0	0.0	0.0
21508	1	51.0	0.0	0.0	0.0
21512	2	75.0	0.0	0.0	0.0
21605	2	77.0	0.0	0.0	0.0
21609	1	51.0	0.0	0.0	0.0
21701	2	81.0	0.0	0.0	0.0
21706	1	61.0	0.0	0.0	0.0
21710	2	82.0	0.0	0.0	0.0
21802	3	113.0	0.0	0.0	0.0
21807	2	54.0	0.0	0.0	0.0
21811	2	83.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
21008	2	76.0	0.0	0.0	0.0
21101	2	81.0	0.0	0.0	0.0
21106	1	61.0	0.0	0.0	0.0
21201	2	81.0	0.0	0.0	0.0
21206	1	61.0	0.0	0.0	0.0
21210	2	82.0	0.0	0.0	0.0
21302	3	113.0	0.0	0.0	0.0
21307	1	54.0	0.0	0.0	0.0
21311	2	83.0	0.0	0.0	0.0
21403	2	78.0	0.0	0.0	0.0
21408	1	51.0	0.0	0.0	0.0
21412	2	75.0	0.0	0.0	0.0
21505	2	77.0	0.0	0.0	0.0
21509	1	51.0	0.0	0.0	0.0
21601	2	81.0	0.0	0.0	0.0
21606	1	61.0	0.0	0.0	0.0
21610	2	82.0	0.0	0.0	0.0
21702	3	113.0	0.0	0.0	0.0
21707	1	54.0	0.0	0.0	0.0
21711	2	83.0	0.0	0.0	0.0
21803	2	78.0	0.0	0.0	0.0
21808	3	51.0	0.0	0.0	0.0
21812	2	75.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
21009	2	82.0	0.0	0.0	0.0
21102	3	102.0	0.0	0.0	0.0
21107	2	71.0	0.0	0.0	0.0
21202	3	113.0	0.0	0.0	0.0
21207	1	54.0	0.0	0.0	0.0
21211	2	83.0	0.0	0.0	0.0
21303	2	78.0	0.0	0.0	0.0
21308	1	51.0	0.0	0.0	0.0
21312	2	75.0	0.0	0.0	0.0
21405	2	77.0	0.0	0.0	0.0
21409	1	51.0	0.0	0.0	0.0
21501	2	81.0	0.0	0.0	0.0
21506	1	61.0	0.0	0.0	0.0
21510	2	82.0	0.0	0.0	0.0
21602	3	113.0	0.0	0.0	0.0
21607	1	54.0	0.0	0.0	0.0
21611	2	83.0	0.0	0.0	0.0
21703	1	78.0	0.0	0.0	0.0
21708	1	51.0	0.0	0.0	0.0
21712	2	75.0	0.0	0.0	0.0
21805	2	77.0	0.0	0.0	0.0
21809	2	51.0	0.0	0.0	0.0
21901	2	81.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
21902	3	113.0	0.0	0.0	0.0
21907	1	54.0	0.0	0.0	0.0
21911	2	83.0	0.0	0.0	0.0
22003	2	78.0	0.0	0.0	0.0
22008	1	51.0	0.0	0.0	0.0
22012	2	75.0	0.0	0.0	0.0
22105	2	77.0	0.0	0.0	0.0
22109	1	51.0	0.0	0.0	0.0
22201	2	81.0	0.0	0.0	0.0
22206	1	61.0	0.0	0.0	0.0
22210	2	82.0	0.0	0.0	0.0
22302	3	113.0	0.0	0.0	0.0
22307	1	50.0	0.0	0.0	0.0
22311	2	75.0	0.0	0.0	0.0
22405	2	77.0	0.0	0.0	0.0
22409	2	82.0	0.0	0.0	0.0
22502	3	113.0	0.0	0.0	0.0
22507	2	83.0	0.0	0.0	0.0
22603	1	50.0	0.0	0.0	0.0
22608	2	75.0	0.0	0.0	0.0
22705	1	50.0	0.0	0.0	0.0
22801	1	54.0	0.0	0.0	0.0
22806	2	82.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
21903	2	78.0	0.0	0.0	0.0
21908	1	51.0	0.0	0.0	0.0
21912	2	75.0	0.0	0.0	0.0
22005	2	77.0	0.0	0.0	0.0
22009	2	51.0	0.0	0.0	0.0
22101	2	81.0	0.0	0.0	0.0
22106	1	61.0	0.0	0.0	0.0
22110	2	82.0	0.0	0.0	0.0
22202	3	113.0	0.0	0.0	0.0
22207	1	54.0	0.0	0.0	0.0
22211	2	83.0	0.0	0.0	0.0
22303	2	78.0	0.0	0.0	0.0
22308	1	50.0	0.0	0.0	0.0
22401	2	81.0	0.0	0.0	0.0
22406	3	110.0	0.0	0.0	0.0
22410	2	83.0	0.0	0.0	0.0
22503	1	50.0	0.0	0.0	0.0
22508	2	75.0	0.0	0.0	0.0
22605	1	50.0	0.0	0.0	0.0
22701	1	54.0	0.0	0.0	0.0
22706	2	82.0	0.0	0.0	0.0
22802	3	110.0	0.0	0.0	0.0
22807	2	83.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
21905	2	77.0	0.0	0.0	0.0
21909	1	51.0	0.0	0.0	0.0
22001	2	81.0	0.0	0.0	0.0
22006	1	61.0	0.0	0.0	0.0
22010	2	82.0	0.0	0.0	0.0
22102	3	113.0	0.0	0.0	0.0
22107	1	54.0	0.0	0.0	0.0
22111	2	83.0	0.0	0.0	0.0
22203	2	78.0	0.0	0.0	0.0
22208	1	51.0	0.0	0.0	0.0
22212	3	75.0	0.0	0.0	0.0
22305	2	77.0	0.0	0.0	0.0
22309	2	82.0	0.0	0.0	0.0
22402	3	113.0	0.0	0.0	0.0
22407	1	50.0	0.0	0.0	0.0
22411	2	75.0	0.0	0.0	0.0
22505	1	50.0	0.0	0.0	0.0
22601	1	54.0	0.0	0.0	0.0
22606	2	82.0	0.0	0.0	0.0
22702	3	110.0	0.0	0.0	0.0
22707	2	83.0	0.0	0.0	0.0
22803	1	50.0	0.0	0.0	0.0
22808	2	75.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
21906	1	61.0	0.0	0.0	0.0
21910	2	82.0	0.0	0.0	0.0
22002	3	113.0	0.0	0.0	0.0
22007	1	54.0	0.0	0.0	0.0
22011	2	83.0	0.0	0.0	0.0
22103	2	78.0	0.0	0.0	0.0
22108	1	51.0	0.0	0.0	0.0
22112	2	75.0	0.0	0.0	0.0
22205	2	77.0	0.0	0.0	0.0
22209	1	51.0	0.0	0.0	0.0
22301	2	81.0	0.0	0.0	0.0
22306	3	110.0	0.0	0.0	0.0
22310	2	83.0	0.0	0.0	0.0
22403	2	78.0	0.0	0.0	0.0
22408	1	50.0	0.0	0.0	0.0
22501	1	54.0	0.0	0.0	0.0
22506	2	82.0	0.0	0.0	0.0
22602	3	110.0	0.0	0.0	0.0
22607	2	83.0	0.0	0.0	0.0
22703	1	50.0	0.0	0.0	0.0
22708	2	75.0	0.0	0.0	0.0
22805	1	50.0	0.0	0.0	0.0
22901	1	54.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
22902	3	110.0	0.0	0.0	0.0
22907	2	83.0	0.0	0.0	0.0
23003	1	50.0	0.0	0.0	0.0
23008	2	75.0	0.0	0.0	0.0
23105	1	56.0	0.0	0.0	0.0
23202	3	109.0	0.0	0.0	0.0
23207	2	83.0	0.0	0.0	0.0
23305	2	82.0	0.0	0.0	0.0
23403	3	102.0	0.0	0.0	0.0
23502	3	109.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
22903	1	50.0	0.0	0.0	0.0
22908	2	75.0	0.0	0.0	0.0
23005	1	50.0	0.0	0.0	0.0
23101	1	54.0	0.0	0.0	0.0
23106	2	76.0	0.0	0.0	0.0
23203	3	102.0	0.0	0.0	0.0
23301	3	133.0	0.0	0.0	0.0
23306	2	83.0	0.0	0.0	0.0
23405	2	82.0	0.0	0.0	0.0
23503	3	102.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
22905	1	50.0	0.0	0.0	0.0
23001	1	54.0	0.0	0.0	0.0
23006	2	82.0	0.0	0.0	0.0
23102	3	109.0	0.0	0.0	0.0
23107	2	82.0	0.0	0.0	0.0
23205	2	82.0	0.0	0.0	0.0
23302	3	109.0	0.0	0.0	0.0
23401	3	113.0	0.0	0.0	0.0
23406	2	83.0	0.0	0.0	0.0
23505	2	82.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
22906	2	82.0	0.0	0.0	0.0
23002	3	110.0	0.0	0.0	0.0
23007	2	83.0	0.0	0.0	0.0
23103	3	102.0	0.0	0.0	0.0
23201	1	54.0	0.0	0.0	0.0
23206	2	83.0	0.0	0.0	0.0
23303	3	102.0	0.0	0.0	0.0
23402	3	109.0	0.0	0.0	0.0
23501	2	133.0	0.0	0.0	0.0
23506	2	83.0	0.0	0.0	0.0

Residential flat buildings - Building 5, 258 dwellings, 23 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)
50101	2	76.0	0.0	0.0	0.0
50106	2	75.0	0.0	0.0	0.0
50202	3	147.0	0.0	0.0	0.0
50207	2	97.0	0.0	0.0	0.0
50211	1	49.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
50102	1	49.0	0.0	0.0	0.0
50107	1	49.0	0.0	0.0	0.0
50203	2	97.0	0.0	0.0	0.0
50208	2	101.0	0.0	0.0	0.0
50212	2	75.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
50103	2	75.0	0.0	0.0	0.0
50108	1	51.0	0.0	0.0	0.0
50205	2	97.0	0.0	0.0	0.0
50209	1	63.0	0.0	0.0	0.0
50213	1	55.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
50105	1	55.0	0.0	0.0	0.0
50201	2	98.0	0.0	0.0	0.0
50206	2	97.0	0.0	0.0	0.0
50210	2	76.0	0.0	0.0	0.0
50215	2	75.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
50216	1	55.0	0.0	0.0	0.0
50303	2	75.0	0.0	0.0	0.0
50308	1	51.0	0.0	0.0	0.0
50405	1	51.0	0.0	0.0	0.0
50409	1	51.0	0.0	0.0	0.0
50413	1	55.0	0.0	0.0	0.0
50501	2	55.0	0.0	0.0	0.0
50506	1	52.0	0.0	0.0	0.0
50510	2	76.0	0.0	0.0	0.0
50515	2	75.0	0.0	0.0	0.0
50602	2	80.0	0.0	0.0	0.0
50607	1	52.0	0.0	0.0	0.0
50611	1	49.0	0.0	0.0	0.0
50616	1	55.0	0.0	0.0	0.0
50703	1	52.0	0.0	0.0	0.0
50708	2	81.0	0.0	0.0	0.0
50712	2	75.0	0.0	0.0	0.0
50717	1	51.0	0.0	0.0	0.0
50805	1	51.0	0.0	0.0	0.0
50809	1	51.0	0.0	0.0	0.0
50813	2	75.0	0.0	0.0	0.0
50902	3	105.0	0.0	0.0	0.0
50907	2	75.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
50217	1	51.0	0.0	0.0	0.0
50305	1	55.0	0.0	0.0	0.0
50401	1	56.0	0.0	0.0	0.0
50406	1	51.0	0.0	0.0	0.0
50410	2	76.0	0.0	0.0	0.0
50415	2	75.0	0.0	0.0	0.0
50502	2	80.0	0.0	0.0	0.0
50507	1	52.0	0.0	0.0	0.0
50511	1	49.0	0.0	0.0	0.0
50516	1	55.0	0.0	0.0	0.0
50603	1	52.0	0.0	0.0	0.0
50608	2	81.0	0.0	0.0	0.0
50612	2	75.0	0.0	0.0	0.0
50617	1	51.0	0.0	0.0	0.0
50705	1	51.0	0.0	0.0	0.0
50709	1	51.0	0.0	0.0	0.0
50713	1	55.0	0.0	0.0	0.0
50801	2	55.0	0.0	0.0	0.0
50806	1	52.0	0.0	0.0	0.0
50810	2	76.0	0.0	0.0	0.0
50815	1	55.0	0.0	0.0	0.0
50903	2	76.0	0.0	0.0	0.0
50908	1	55.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
50301	2	76.0	0.0	0.0	0.0
50306	2	75.0	0.0	0.0	0.0
50402	2	79.0	0.0	0.0	0.0
50407	1	51.0	0.0	0.0	0.0
50411	1	49.0	0.0	0.0	0.0
50416	1	55.0	0.0	0.0	0.0
50503	1	52.0	0.0	0.0	0.0
50508	2	81.0	0.0	0.0	0.0
50512	2	75.0	0.0	0.0	0.0
50517	1	51.0	0.0	0.0	0.0
50605	1	51.0	0.0	0.0	0.0
50609	1	51.0	0.0	0.0	0.0
50613	1	55.0	0.0	0.0	0.0
50701	2	55.0	0.0	0.0	0.0
50706	1	52.0	0.0	0.0	0.0
50710	2	76.0	0.0	0.0	0.0
50715	2	75.0	0.0	0.0	0.0
50802	2	82.0	0.0	0.0	0.0
50807	1	52.0	0.0	0.0	0.0
50811	1	49.0	0.0	0.0	0.0
50816	1	51.0	0.0	0.0	0.0
50905	1	49.0	0.0	0.0	0.0
50909	1	51.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
50302	1	49.0	0.0	0.0	0.0
50307	1	55.0	0.0	0.0	0.0
50403	1	51.0	0.0	0.0	0.0
50408	2	81.0	0.0	0.0	0.0
50412	2	75.0	0.0	0.0	0.0
50417	1	51.0	0.0	0.0	0.0
50505	1	51.0	0.0	0.0	0.0
50509	1	51.0	0.0	0.0	0.0
50513	1	55.0	0.0	0.0	0.0
50601	2	55.0	0.0	0.0	0.0
50606	1	52.0	0.0	0.0	0.0
50610	2	76.0	0.0	0.0	0.0
50615	2	75.0	0.0	0.0	0.0
50702	2	80.0	0.0	0.0	0.0
50707	1	52.0	0.0	0.0	0.0
50711	1	49.0	0.0	0.0	0.0
50716	1	55.0	0.0	0.0	0.0
50803	1	52.0	0.0	0.0	0.0
50808	2	81.0	0.0	0.0	0.0
50812	2	75.0	0.0	0.0	0.0
50901	3	115.0	0.0	0.0	0.0
50906	2	75.0	0.0	0.0	0.0
51001	1	51.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
51002	2	69.0	0.0	0.0	0.0
51007	2	76.0	0.0	0.0	0.0
51011	1	55.0	0.0	0.0	0.0
51103	1	51.0	0.0	0.0	0.0
51108	1	49.0	0.0	0.0	0.0
51112	1	51.0	0.0	0.0	0.0
51205	1	51.0	0.0	0.0	0.0
51209	2	82.0	0.0	0.0	0.0
51301	1	52.0	0.0	0.0	0.0
51306	2	88.0	0.0	0.0	0.0
51310	3	117.0	0.0	0.0	0.0
51402	2	74.0	0.0	0.0	0.0
51407	2	76.0	0.0	0.0	0.0
51411	1	57.0	0.0	0.0	0.0
51503	1	52.0	0.0	0.0	0.0
51508	1	49.0	0.0	0.0	0.0
51512	1	51.0	0.0	0.0	0.0
51605	1	51.0	0.0	0.0	0.0
51609	2	82.0	0.0	0.0	0.0
51701	1	52.0	0.0	0.0	0.0
51706	2	76.0	0.0	0.0	0.0
51710	1	57.0	0.0	0.0	0.0
51803	2	78.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
51003	1	51.0	0.0	0.0	0.0
51008	1	49.0	0.0	0.0	0.0
51012	1	51.0	0.0	0.0	0.0
51105	1	51.0	0.0	0.0	0.0
51109	2	82.0	0.0	0.0	0.0
51201	1	51.0	0.0	0.0	0.0
51206	2	88.0	0.0	0.0	0.0
51210	3	117.0	0.0	0.0	0.0
51302	2	74.0	0.0	0.0	0.0
51307	2	76.0	0.0	0.0	0.0
51311	1	50.0	0.0	0.0	0.0
51403	1	51.0	0.0	0.0	0.0
51408	1	49.0	0.0	0.0	0.0
51412	1	51.0	0.0	0.0	0.0
51505	1	51.0	0.0	0.0	0.0
51509	2	82.0	0.0	0.0	0.0
51601	1	52.0	0.0	0.0	0.0
51606	2	88.0	0.0	0.0	0.0
51610	3	117.0	0.0	0.0	0.0
51702	2	85.0	0.0	0.0	0.0
51707	1	50.0	0.0	0.0	0.0
51711	1	51.0	0.0	0.0	0.0
51805	3	88.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
51005	1	51.0	0.0	0.0	0.0
51009	2	82.0	0.0	0.0	0.0
51101	1	51.0	0.0	0.0	0.0
51106	2	88.0	0.0	0.0	0.0
51110	3	117.0	0.0	0.0	0.0
51202	2	69.0	0.0	0.0	0.0
51207	2	76.0	0.0	0.0	0.0
51211	1	55.0	0.0	0.0	0.0
51303	1	51.0	0.0	0.0	0.0
51308	1	49.0	0.0	0.0	0.0
51312	1	51.0	0.0	0.0	0.0
51405	1	51.0	0.0	0.0	0.0
51409	2	82.0	0.0	0.0	0.0
51501	1	52.0	0.0	0.0	0.0
51506	2	88.0	0.0	0.0	0.0
51510	3	117.0	0.0	0.0	0.0
51602	2	74.0	0.0	0.0	0.0
51607	2	76.0	0.0	0.0	0.0
51611	1	57.0	0.0	0.0	0.0
51703	2	78.0	0.0	0.0	0.0
51708	2	82.0	0.0	0.0	0.0
51801	1	52.0	0.0	0.0	0.0
51806	2	76.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
51006	2	88.0	0.0	0.0	0.0
51010	3	117.0	0.0	0.0	0.0
51102	2	69.0	0.0	0.0	0.0
51107	2	76.0	0.0	0.0	0.0
51111	1	55.0	0.0	0.0	0.0
51203	1	51.0	0.0	0.0	0.0
51208	1	49.0	0.0	0.0	0.0
51212	1	51.0	0.0	0.0	0.0
51305	1	51.0	0.0	0.0	0.0
51309	2	82.0	0.0	0.0	0.0
51401	1	52.0	0.0	0.0	0.0
51406	2	88.0	0.0	0.0	0.0
51410	3	117.0	0.0	0.0	0.0
51502	2	74.0	0.0	0.0	0.0
51507	2	76.0	0.0	0.0	0.0
51511	1	57.0	0.0	0.0	0.0
51603	1	52.0	0.0	0.0	0.0
51608	1	50.0	0.0	0.0	0.0
51612	1	51.0	0.0	0.0	0.0
51705	3	88.0	0.0	0.0	0.0
51709	3	117.0	0.0	0.0	0.0
51802	2	85.0	0.0	0.0	0.0
51807	1	50.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
51808	2	82.0	0.0	0.0	0.0
51901	1	52.0	0.0	0.0	0.0
51906	2	76.0	0.0	0.0	0.0
51910	1	57.0	0.0	0.0	0.0
52003	2	78.0	0.0	0.0	0.0
52008	2	82.0	0.0	0.0	0.0
52101	1	52.0	0.0	0.0	0.0
52106	2	76.0	0.0	0.0	0.0
52110	1	57.0	0.0	0.0	0.0
52203	2	78.0	0.0	0.0	0.0
52208	2	82.0	0.0	0.0	0.0
52301	1	52.0	0.0	0.0	0.0
52306	2	76.0	0.0	0.0	0.0
52310	1	57.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
51809	3	117.0	0.0	0.0	0.0
51902	2	85.0	0.0	0.0	0.0
51907	1	50.0	0.0	0.0	0.0
51911	1	51.0	0.0	0.0	0.0
52005	3	88.0	0.0	0.0	0.0
52009	3	117.0	0.0	0.0	0.0
52102	2	85.0	0.0	0.0	0.0
52107	1	50.0	0.0	0.0	0.0
52111	1	51.0	0.0	0.0	0.0
52205	3	88.0	0.0	0.0	0.0
52209	3	117.0	0.0	0.0	0.0
52302	2	85.0	0.0	0.0	0.0
52307	1	50.0	0.0	0.0	0.0
52311	1	51.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
51810	1	57.0	0.0	0.0	0.0
51903	2	78.0	0.0	0.0	0.0
51908	2	82.0	0.0	0.0	0.0
52001	1	57.0	0.0	0.0	0.0
52006	2	76.0	0.0	0.0	0.0
52010	1	57.0	0.0	0.0	0.0
52103	2	78.0	0.0	0.0	0.0
52108	2	82.0	0.0	0.0	0.0
52201	1	52.0	0.0	0.0	0.0
52206	2	76.0	0.0	0.0	0.0
52210	1	57.0	0.0	0.0	0.0
52303	2	78.0	0.0	0.0	0.0
52308	2	82.0	0.0	0.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
51811	1	51.0	0.0	0.0	0.0
51905	3	88.0	0.0	0.0	0.0
51909	3	117.0	0.0	0.0	0.0
52002	2	85.0	0.0	0.0	0.0
52007	1	50.0	0.0	0.0	0.0
52011	1	51.0	0.0	0.0	0.0
52105	3	88.0	0.0	0.0	0.0
52109	3	117.0	0.0	0.0	0.0
52202	2	85.0	0.0	0.0	0.0
52207	1	50.0	0.0	0.0	0.0
52211	1	51.0	0.0	0.0	0.0
52305	3	88.0	0.0	0.0	0.0
52309	3	117.0	0.0	0.0	0.0

Description of project

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

Common areas of unit building - Building 3

Common area	Floor area (m²)
Lift car (No. 6)	-
Bicycle Storage Area	425.15

Common area	Floor area (m²)
Lift car (No. 7)	-

Common area	Floor area (m²)
Community room and gym	168.9

Common areas of unit building - Building 1

Common area	Floor area (m²)
Lift car (No. 1)	-

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

Common areas of unit building - Building 2

Common area	Floor area (m²)
Lift car (No. 3)	-

Common area	Floor area (m²)
Lift car (No. 4)	-

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

Common areas of unit building - Building 5

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

Common area	Floor area (m²)
Lift car (No.9)	-

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

Common areas of the development (non-building specific)

Common area	Floor area (m²)
Car park area	32463.0
WC	5.0
Car park supply	294.1

Common area	Floor area (m²)
Building managers office	18.39
Other plant or service rooms	507.02
Ground floor lobbies	433.18

Common area	Floor area (m²)
Garbage room	372.48
Car park exhaust room	125.17
Hallways	5467.15

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Building 3

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

2. Commitments for Residential flat buildings - Building 1

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

3. Commitments for Residential flat buildings - Building 2

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

4. Commitments for Residential flat buildings - Building 5

(a) Dwellings

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

(b) Common areas and central systems/facilities

- (i) Water
- (ii) Energy

5. Commitments for multi-dwelling houses

6. Commitments for single dwelling houses

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

- (i) Water
- (ii) Energy

Schedule of BASIX commitments

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

1. Commitments for Residential flat buildings - Building 3

(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 (> 7.5 but <= 9 L/min)	4 star	5 star	5 star	no	-	3.5 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
All dwellings	reticulated alternative water supply	-	See central systems	no	yes	yes	no	no
None	-	-	-	-	-	-	-	-

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

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

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
30209	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	-	-	-	-	-	-	-	-
All other dwellings	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	2	1	yes	yes	yes	yes	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	-	yes	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.			

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.			
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✓	✓
(g) Where there is an in-slab heating or cooling system, the applicant must: (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✓	✓	✓
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✓	✓	✓

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
30101	53.0	26.0
30102	36.0	46.0
30103	53.0	19.0
30105	53.0	13.0
30201	47.0	17.0
30202	38.0	43.0
30205	53.0	15.0
30207	59.0	21.0
30208	38.0	22.0
30209	59.0	19.0
30302	44.0	29.0
30307	55.0	16.0
30308	35.0	17.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
30309	50.0	16.0
30402	45.0	28.0
30407	55.0	17.0
30501	45.0	16.0
30502	46.0	27.0
30507	56.0	16.0
30602	46.0	26.0
30606	56.0	14.0
30607	57.0	16.0
30702	55.0	25.0
30703	48.0	15.0
30705	60.0	15.0
30706	57.0	14.0
30707	58.0	16.0
30709	53.0	14.0
30801	60.0	39.0
30802	59.0	18.0
30803	43.0	23.0
30805	64.0	23.0
30806	58.0	44.0
30901	66.0	37.0
30902	54.0	16.0
30903	57.0	22.0
30905	61.0	14.0
30906	66.0	41.0
30203, 30303	36.0	19.0
30301, 30401	44.0	16.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
30305, 30306	54.0	15.0
30408, 30508	36.0	16.0
30503, 30603	47.0	15.0
30608, 30708	37.0	16.0
30206, 30505, 30605	59.0	15.0
30403, 30601, 30701	46.0	15.0
30405, 30406, 30506	55.0	14.0
All other dwellings	52.0	15.0

(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	no common facility	4 star	4 star	no common laundry facility

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

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

(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 ventilation system		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No. 6)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No. 7)	-	-	light-emitting diode	connected to lift call button	No
Community room and gym	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	No
Bicycle Storage Area	ventilation supply only	time clock or BMS controlled	fluorescent	motion sensors	No

Central energy systems	Type	Specification
Lift (No. 6)	gearless traction with V V V F motor	Number of levels (including basement): 12
Lift (No. 7)	gearless traction with V V V F motor	Number of levels (including basement): 12

2. Commitments for Residential flat buildings - Building 1

(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 (> 7.5 but <= 9 L/min)	4 star	5 star	5 star	no	-	3.5 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
All dwellings	reticulated alternative water supply	-	See central systems	no	yes	yes	no	no
None	-	-	-	-	-	-	-	-

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

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

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
All dwellings	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	2	1	yes	yes	yes	yes	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	-	yes	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.			

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✓	✓
(g) Where there is an in-slab heating or cooling system, the applicant must: (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✓	✓	✓
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✓	✓	✓

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
10101	50.0	27.0
10102	35.0	22.0
10106	38.0	19.0
10301	60.0	23.0
10303	31.0	20.0
10307	45.0	31.0
10308	50.0	32.0
10401	65.0	19.0
10402	48.0	15.0
10403	39.0	14.0
10404	38.0	13.0
10405	37.0	14.0
10406	37.0	22.0
10701	64.0	18.0
10705	40.0	12.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
10801	65.0	18.0
10808	57.0	23.0
10901	66.0	17.0
10902	45.0	14.0
10903	46.0	13.0
10907	40.0	20.0
10908	57.0	22.0
11001	66.0	22.0
11002	53.0	14.0
11007	48.0	17.0
11008	60.0	22.0
11101	63.0	15.0
11102	47.0	13.0
11103	48.0	14.0
11105	53.0	19.0
11201	61.0	14.0
11202	58.0	13.0
11203	57.0	12.0
11205	51.0	15.0
10103, 10105	31.0	18.0
10305, 10306	30.0	20.0
10407, 10508	55.0	25.0
10501, 10601	66.0	19.0
10502, 10602	43.0	14.0
10506, 10606	38.0	14.0
10507, 10607	38.0	22.0
10608, 10708	56.0	24.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
10702, 10802	44.0	14.0
10302, 10707, 10807	39.0	21.0
10503, 10603, 10906	40.0	13.0
11003, 11005, 11006	51.0	11.0
10505, 10605, 10706, 10806	39.0	13.0
All other dwellings	41.0	12.0

(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	no common facility	4 star	4 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Fire sprinkler system (No. 5)	-	-	-

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

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No. 1)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No. 2)	-	-	light-emitting diode	connected to lift call button	No

Central energy systems	Type	Specification
Lift (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 16
Lift (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 16

3. Commitments for Residential flat buildings - Building 2

(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 (> 7.5 but <= 9 L/min)	4 star	5 star	5 star	no	-	3.5 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
All dwellings	reticulated alternative water supply	-	See central systems	no	yes	yes	no	no
None	-	-	-	-	-	-	-	-

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

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

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

Dwelling no.	Cooling		Heating		Artificial lighting						Natural lighting	
	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
All dwellings	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	2	1	yes	yes	yes	yes	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	-	yes	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.			

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✓	✓
(g) Where there is an in-slab heating or cooling system, the applicant must: (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✓	✓	✓
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✓	✓	✓

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
20101	40.0	39.0
20102	44.0	51.0
20103	38.0	19.0
20105	58.0	36.0
20106	26.0	14.0
20107	49.0	31.0
20108	39.0	43.0
20109	46.0	16.0
20201	42.0	35.0
20202	46.0	49.0
20203	26.0	16.0
20205	58.0	34.0
20207	39.0	31.0
20208	30.0	11.0
20209	51.0	31.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
20210	41.0	42.0
20211	48.0	16.0
20301	47.0	26.0
20302	51.0	36.0
20303	32.0	16.0
20305	62.0	25.0
20306	43.0	16.0
20307	40.0	15.0
20308	31.0	11.0
20309	51.0	30.0
20310	46.0	35.0
20401	48.0	26.0
20405	63.0	24.0
20408	32.0	11.0
20409	52.0	29.0
20410	47.0	35.0
20501	49.0	26.0
20509	53.0	28.0
20510	47.0	34.0
20603	30.0	15.0
20606	57.0	15.0
20610	47.0	33.0
20703	30.0	16.0
20705	57.0	21.0
20706	56.0	15.0
20707	35.0	16.0
20708	30.0	10.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
20710	48.0	33.0
20803	29.0	16.0
20807	34.0	16.0
20808	28.0	10.0
20809	52.0	27.0
20810	49.0	33.0
20901	51.0	24.0
20902	54.0	34.0
20903	28.0	16.0
20907	33.0	15.0
20908	27.0	10.0
20910	49.0	32.0
20911	56.0	10.0
21002	57.0	29.0
21003	30.0	14.0
21008	31.0	10.0
21010	62.0	30.0
21011	62.0	9.0
21103	33.0	12.0
21107	55.0	13.0
21108	63.0	15.0
21109	58.0	13.0
21202	63.0	40.0
21203	50.0	17.0
21210	45.0	19.0
21211	60.0	30.0
21212	57.0	9.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
21302	66.0	38.0
21305	43.0	13.0
21307	46.0	18.0
21310	43.0	19.0
21311	50.0	27.0
21402	56.0	38.0
21405	44.0	13.0
21502	62.0	44.0
21602	62.0	35.0
21610	43.0	18.0
21611	51.0	26.0
21706	56.0	13.0
21710	44.0	19.0
21808	51.0	11.0
21903	62.0	17.0
21906	57.0	14.0
22005	43.0	12.0
22103	53.0	18.0
22206	60.0	13.0
22211	52.0	25.0
22301	57.0	19.0
22308	48.0	12.0
22401	60.0	18.0
22402	61.0	24.0
22403	66.0	16.0
22405	58.0	11.0
22408	50.0	13.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
22506	46.0	19.0
22708	54.0	9.0
22808	55.0	10.0
22906	48.0	18.0
22907	53.0	26.0
23006	61.0	9.0
23007	63.0	13.0
23107	46.0	8.0
23202	50.0	15.0
23306	54.0	26.0
23501	66.0	18.0
23502	64.0	15.0
23505	60.0	17.0
23506	66.0	24.0
20206, 21009	57.0	20.0
20402, 20502	51.0	37.0
20403, 20503	32.0	15.0
20406, 20506	59.0	16.0
20407, 21102	50.0	30.0
20411, 22208	53.0	12.0
20505, 20605	56.0	22.0
20507, 20607	38.0	15.0
20508, 20608	32.0	10.0
20601, 20909	49.0	25.0
20609, 20709	53.0	27.0
20701, 20801	50.0	25.0
20711, 20811	55.0	11.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
20806, 20906	54.0	15.0
21303, 21403	51.0	18.0
21801, 22201	56.0	19.0
22109, 22209	44.0	11.0
22306, 22406	39.0	12.0
22508, 22608	54.0	10.0
23301, 23401	66.0	19.0
20511, 20611, 23503	54.0	11.0
20602, 20702, 20802	54.0	35.0
21001, 21101, 21201	54.0	20.0
21007, 21106, 21205	35.0	13.0
21411, 21511, 21711	51.0	27.0
21512, 21612, 21812	59.0	10.0
21702, 21802, 21902	62.0	34.0
21806, 22006, 22106	57.0	13.0
21807, 22502, 22602	47.0	17.0
22003, 22203, 22303	53.0	17.0
22105, 22205, 22305	45.0	12.0
22309, 22311, 22409	53.0	25.0
22501, 22601, 22701	61.0	32.0
22908, 23008, 23207	55.0	9.0
23102, 23302, 23402	50.0	14.0
23106, 23206, 23406	54.0	25.0
20805, 20905, 21005, 21105	56.0	21.0
21207, 21907, 22007, 22107	45.0	17.0
21301, 21401, 21501, 21601	55.0	20.0
21308, 21408, 21508, 21608	49.0	11.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
21407, 21507, 21607, 21707	46.0	17.0
21503, 21603, 21703, 21803	52.0	17.0
21701, 21901, 22001, 22101	56.0	20.0
21708, 21908, 22008, 22108	50.0	11.0
21811, 21911, 22011, 22111	52.0	26.0
22002, 22102, 22202, 22302	63.0	34.0
21208, 21209, 21309, 21409, 21509	42.0	11.0
21312, 21412, 21712, 21912, 22012	59.0	9.0
21505, 21605, 21705, 21805, 21905	44.0	12.0
21609, 21709, 21809, 21909, 22009	43.0	11.0
22112, 22212, 22310, 22410, 22411	60.0	9.0
22207, 23105, 23205, 23305, 23405	48.0	17.0
22801, 22901, 23001, 23101, 23201	62.0	32.0
21006, 21206, 21306, 21406, 21506, 21606	56.0	14.0
22307, 22407, 22503, 22603, 22703, 22803	51.0	12.0
22505, 22605, 22705, 22805, 22905, 23005	50.0	12.0
21410, 21510, 21810, 21910, 22010, 22110, 22210	44.0	18.0
22507, 22607, 22707, 22807, 23103, 23203, 23303, 23403	39.0	11.0
All other dwellings	52.0	12.0

(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	no common facility	4 star	4 star	no common laundry facility

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

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

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No. 3)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No. 4)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No. 5)	-	-	light-emitting diode	connected to lift call button	No

Central energy systems	Type	Specification
Lift (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 38
Lift (No. 4)	gearless traction with V V V F motor	Number of levels (including basement): 38
Lift (No. 5)	gearless traction with V V V F motor	Number of levels (including basement): 38

4. Commitments for Residential flat buildings - Building 5

(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 (> 7.5 but <= 9 L/min)	4 star	5 star	5 star	no	-	3.5 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
All dwellings	reticulated alternative water supply	-	See central systems	no	yes	yes	no	no
None	-	-	-	-	-	-	-	-

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

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

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

	Cooling		Heating		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
All dwellings	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	1-phase airconditioning EER 3.0 - 3.5 (zoned)	2	1	yes	yes	yes	yes	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	-	yes	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.			

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✓	✓
(g) Where there is an in-slab heating or cooling system, the applicant must: (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✓	✓	✓
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✓	✓	✓

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
50101	34.0	28.0
50102	62.0	25.0
50103	31.0	20.0
50105	34.0	36.0
50106	47.0	26.0
50107	59.0	25.0
50108	61.0	24.0
50201	64.0	18.0
50202	56.0	46.0
50203	22.0	21.0
50208	27.0	25.0
50210	31.0	29.0
50211	59.0	28.0
50213	29.0	37.0
50215	44.0	25.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
50217	57.0	24.0
50301	35.0	22.0
50305	30.0	37.0
50401	57.0	20.0
50402	28.0	11.0
50408	40.0	21.0
50410	35.0	21.0
50413	35.0	30.0
50501	57.0	18.0
50502	29.0	11.0
50509	56.0	19.0
50510	36.0	21.0
50513	35.0	29.0
50516	64.0	17.0
50517	59.0	17.0
50602	29.0	10.0
50603	33.0	10.0
50610	36.0	20.0
50611	62.0	26.0
50613	36.0	28.0
50615	50.0	16.0
50616	65.0	17.0
50617	60.0	16.0
50702	30.0	10.0
50703	34.0	10.0
50708	43.0	19.0
50713	49.0	26.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
50715	50.0	15.0
50801	66.0	43.0
50802	47.0	10.0
50808	59.0	18.0
50813	51.0	16.0
50815	66.0	16.0
50901	59.0	21.0
50905	64.0	25.0
50906	36.0	15.0
51012	64.0	13.0
51311	64.0	33.0
51602	46.0	17.0
51603	56.0	10.0
51702	59.0	15.0
51703	55.0	12.0
51810	60.0	44.0
51909	65.0	21.0
52007	56.0	50.0
52009	56.0	20.0
52107	55.0	50.0
52109	65.0	19.0
52207	55.0	51.0
52209	65.0	20.0
52302	58.0	14.0
52303	66.0	11.0
52305	57.0	16.0
52306	53.0	16.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
52307	65.0	47.0
52308	62.0	20.0
52309	66.0	17.0
52310	65.0	11.0
52311	63.0	11.0
50209, 51001	65.0	23.0
50212, 50303	33.0	16.0
50307, 50416	63.0	17.0
50308, 50417	58.0	17.0
50409, 50902	55.0	20.0
50508, 50608	42.0	20.0
50601, 50701	58.0	18.0
50609, 50709	57.0	19.0
50710, 50810	37.0	20.0
50711, 50811	63.0	26.0
50712, 50812	35.0	15.0
50716, 50908	65.0	16.0
50803, 50806	31.0	10.0
50903, 51007	38.0	20.0
51008, 51108	65.0	18.0
51107, 51207	40.0	17.0
51201, 51901	66.0	22.0
51203, 51205	51.0	9.0
51301, 51401	64.0	22.0
51305, 51405	50.0	10.0
51306, 51406	47.0	16.0
51402, 51502	45.0	17.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
51403, 51503	52.0	10.0
51409, 51509	59.0	27.0
51411, 51511	59.0	11.0
51506, 51606	48.0	15.0
52110, 52210	61.0	11.0
50205, 50206, 50207	22.0	22.0
50302, 52008, 52108	60.0	26.0
50306, 51102, 51202	49.0	18.0
50411, 50511, 52208	61.0	26.0
50412, 50512, 50612	34.0	15.0
50503, 50805, 50807	32.0	10.0
50717, 50816, 50909	61.0	16.0
51011, 51111, 51211	63.0	33.0
51208, 51308, 51408	66.0	19.0
51210, 51310, 52301	64.0	20.0
51303, 51505, 51605	51.0	10.0
51707, 51807, 51907	56.0	51.0
52001, 52101, 52201	66.0	21.0
50216, 50809, 51508, 51608	66.0	18.0
50403, 50405, 50406, 50407	23.0	11.0
50415, 50515, 51002, 51302	49.0	17.0
50505, 50506, 50507, 50606	27.0	10.0
50907, 51006, 51106, 51206	51.0	15.0
51003, 51005, 51103, 51105	50.0	9.0
51009, 51109, 51209, 51309	58.0	27.0
51609, 51708, 51808, 51908	60.0	27.0
51611, 51710, 51910, 52010	60.0	11.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
51906, 52006, 52106, 52206	42.0	17.0
50605, 50607, 50705, 50706, 50707	28.0	10.0
51101, 51501, 51601, 51701, 51801	65.0	22.0
51802, 51902, 52002, 52102, 52202	60.0	15.0
51803, 51903, 52003, 52103, 52203	56.0	12.0
51112, 51212, 51312, 51711, 52111, 52211	65.0	12.0
51307, 51407, 51507, 51607, 51706, 51806	41.0	17.0
51412, 51512, 51612, 51811, 51911, 52011	66.0	12.0
51705, 51805, 51905, 52005, 52105, 52205	47.0	17.0
All other dwellings	64.0	21.0

(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	no common facility	4 star	4 star	no common laundry facility

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

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

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No.8)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.9)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No.10)	-	-	light-emitting diode	connected to lift call button	No

Central energy systems	Type	Specification
Lift (No. 8)	gearless traction with V V V F motor	Number of levels (including basement): 12
Lift (No. 9)	gearless traction with V V V F motor	Number of levels (including basement): 27
Lift (No. 10)	gearless traction with V V V F motor	Number of levels (including basement): 27

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	no common facility	4 star	4 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Central water tank - rainwater or stormwater (No. 1)	10000.0	To collect run-off from at least: - 500.0 square metres of roof area of buildings in the development - 0.0 square metres of impervious area in the development - 0.0 square metres of garden/lawn area in the development - 0.0 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system).	- irrigation of 3545.0 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...)
Reticulated alternative water supply	-	Installation of plumbing to make provision for connection to Sydney Olympic Park Authority reticulated alternative water supply.	- irrigation of 0.0 square metres of common landscaped area on the site - car washing in 1 car washing bays on the site
Fire sprinkler system (No. 1)	-	-	-

(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
Car park area	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	zoned switching with motion sensor	No
Building managers office	ventilation supply only	thermostatically controlled	fluorescent	manual on / manual off	No
Garbage room	ventilation exhaust only	-	fluorescent	motion sensors	No
WC	ventilation exhaust only	none ie. continuous	light-emitting diode	manual on / manual off	No
Other plant or service rooms	ventilation supply only	none ie. continuous	fluorescent	manual on / manual off	No
Car park exhaust room	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Car park supply	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Ground floor lobbies	air conditioning system	time clock or BMS controlled	light-emitting diode	none	No
Hallways	ventilation supply only	time clock or BMS controlled	light-emitting diode	zoned switching with motion sensor	No

Central energy systems	Type	Specification
Central hot water system (No. 1)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)

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).