

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	17/11/16

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 21/20
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: DA-2101(I), DA-2102(H), DA-2103(H), DA-2104(I), DA-2105(I), DA-2106(I), DA-2107(I), DA-2108(H), DA-2109(H), DA-2110(D), DA-2111(G), DA-2112(E), DA-2113(E), DA-2114(H), DA-2115(H), DA-2116(H), DA-2117(H), DA-2118(H), DA-2119(E), DA-2122(H), DA-2123(E), DA-2124(H), DA-2125(E), DA-2126(E), DA-2127(E), DA-2128(H), DA-2129(H), DA-2130(F), DA-2131(G), DA-2132(G), DA-2133(E), DA-2134(E), DA-2135(E), DA-2136(H), DA-2137(H), DA-4000(G), DA-4001(G)

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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 #: 0000990960						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 (M²)		Predict. loads (MJ/M²/y)		Star Rating	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		
Building 1							
1.01.1	2	112	0	50	27	4.4	Low-e glazing throughout
1.01.2	3	126	0	35	22	5.7	None
1.01.3	2	107	0	31	18	6.2	None
1.01.4	2	107	0	31	18	6.2	None
1.01.5	2	107	0	38	19	5.7	None
1.03.1	2	74	0	60	23	4.6	Low-e glazing to living room balcony glazing R1.2 open sub floor insulation
1.03.2	2	83	0	39	21	5.4	R1.2 open sub floor insulation
1.03.3	1	52	0	31	20	6.1	R1.2 open sub floor insulation
1.03.4	1	52	0	30	20	6.2	R1.2 open sub floor insulation
1.03.5	1	52	0	30	20	6.2	R1.2 open sub floor insulation
1.03.6	2	83	0	45	31	4.4	R1.2 open sub floor insulation
1.03.7	2	76	0	50	32	4.3	R1.2 open sub floor insulation
1.04.1	2	74	0	65	19	4.2	Low-e glazing to living room balcony glazing
1.04.2	2	80	0	48	15	5.3	None
1.04.3	1	51	0	39	14	5.9	None
1.04.4	1	51	0	38	13	5.9	None
1.04.5	1	51	0	37	14	6.1	None
1.04.6	2	80	0	37	22	5.4	None
1.04.7	2	74	0	55	25	4.4	None
1.05.1	2	74	0	66	19	4.4	Low-e glazing to living room balcony glazing
1.05.2	2	83	0	43	14	5.7	None
1.05.3	1	52	0	40	13	5.9	None
1.05.4	1	52	0	39	13	5.9	None
1.05.5	1	52	0	38	14	5.9	None
1.05.6	2	83	0	38	22	5.4	None
1.05.7	2	74	0	55	25	4.4	None
1.06.1	2	74	0	66	19	4.2	Low-e glazing to living room balcony glazing
1.06.2	2	83	0	43	14	5.6	None
1.06.3	1	52	0	40	13	5.9	None
1.06.4	1	52	0	39	13	5.9	None

Thermal Comfort Results

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Certificate #: 0000990960						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)		
1.06.5	1	52	0	38	14	5.9	None
1.06.6	2	83	0	38	22	5.4	None
1.06.7	2	74	0	56	24	4.4	None
1.07.1	2	74	0	64	18	4.3	Low-e glazing throughout living and kitchen
1.07.2	2	83	0	44	14	5.6	None
1.07.3	1	52	0	41	12	5.9	None
1.07.4	1	52	0	40	12	5.9	None
1.07.5	1	52	0	39	13	5.9	None
1.07.6	2	83	0	39	21	5.4	None
1.07.7	2	74	0	56	24	4.4	None
1.08.1	2	74	0	65	18	4.3	Low-e glazing throughout living and kitchen
1.08.2	2	83	0	44	14	5.5	None
1.08.3	1	52	0	41	12	5.9	None
1.08.4	1	52	0	41	12	5.9	None
1.08.5	1	52	0	39	13	5.9	None
1.08.6	2	83	0	39	21	5.4	None
1.08.7	2	74	0	57	23	4.4	None
1.09.1	2	74	0	66	17	4.2	Low-e glazing throughout living and kichen
1.09.2	2	83	0	45	14	5.5	None
1.09.3	1	52	0	46	13	5.4	None
1.09.4	1	52	0	41	12	5.9	None
1.09.5	1	52	0	40	13	5.9	None
1.09.6	2	83	0	40	20	5.4	None
1.09.7	2	74	0	57	22	4.4	None
1.10.1	2	76	0	66	15	3.9	Low-e glazing throughout living and kichen
1.10.2	2	83	0	53	14	4.9	None
1.10.3	1	51	0	51	11	5.3	None
1.10.4	1	51	0	51	11	5.3	
1.10.5	1	51	0	51	11	5.3	None
1.10.6	2	80	0	48	17	5.2	
1.10.7	2	74	0	60	22	4.3	None
1.11.1	3	108	0	63	15	4.4	None

Thermal Comfort Results
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Certificate #: 0000990960						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)		
1.11.3	2	79	0	47	13	5.4	None
1.11.5	2	79	0	48	14	5.3	None
1.11.7	3	108	0	53	19	4.7	None
1.12.1	3	108	0	61	14	4.5	Low-e glazing throughout
1.12.3	2	79	0	58	13	4.8	None
1.12.5	2	79	0	57	12	4.9	None
1.12.7	3	108	0	51	15	5.0	Low-e glazing throughout
Building 2							
2.01.1	2	81	0	40	39	4.4	None
2.01.2	3	102	0	44	51	3.8	None
2.01.3	2	81	0	38	19	5.6	None
2.01.4	1	56	0	58	36	3.9	None
2.01.8	2	76	0	26	14	6.9	None
2.01.9	2	82	0	49	31	4.4	None
2.01.10	2	83	0	39	43	4.3	None
2.01.11	2	75	0	46	16	5.3	None
2.02.1	2	81	0	42	35	4.4	None
2.02.2	3	102	0	46	49	3.8	None
2.02.3	2	81	0	26	16	6.7	None
2.02.4	1	56	0	58	34	3.9	None
2.02.5	1	61	0	57	20	4.4	R1.2 open sub floor insulation
2.02.6	1	54	0	39	31	4.8	R1.2 open sub floor insulation
2.02.8	2	76	0	30	11	6.9	None
2.02.9	2	82	0	51	31	4.3	None
2.02.10	2	83	0	41	42	4.3	None
2.02.11	2	75	0	48	16	5.2	None
2.03.1	2	81	0	47	26	4.7	None
2.03.2	3	102	0	51	36	4.1	None
2.03.3	2	81	0	32	16	6.3	None
2.03.4	1	56	0	62	25	4.1	None
2.03.5	1	61	0	43	16	5.4	None
2.03.6	2	71	0	40	15	5.8	None

Thermal Comfort Results
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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)		
2.03.8	2	76	0	31	11	6.8	None
2.03.9	2	82	0	51	30	4.3	None
2.03.10	2	83	0	46	35	4.3	None
2.03.11	2	75	0	52	12	5.2	None
2.04.1	2	81	0	48	26	4.6	None
2.04.2	3	102	0	51	37	4.0	None
2.04.3	2	81	0	32	15	6.4	None
2.04.4	1	56	0	63	24	4.1	None
2.04.5	1	61	0	59	16	4.6	None
2.04.6	2	71	0	40	15	5.8	None
2.04.8	2	76	0	32	11	6.8	None
2.04.9	2	82	0	52	29	4.3	None
2.04.10	2	83	0	47	35	4.3	None
2.04.11	2	75	0	53	12	5.1	None
2.05.1	2	81	0	49	26	4.6	None
2.05.2	3	102	0	51	37	4.0	None
2.05.3	2	81	0	32	15	6.4	None
2.05.4	2	56	0	56	22	4.4	None
2.05.5	1	61	0	59	16	4.6	None
2.05.6	2	71	0	38	15	5.9	None
2.05.8	2	76	0	32	10	6.8	None
2.05.9	2	82	0	53	28	4.3	None
2.05.10	2	83	0	47	34	4.3	None
2.05.11	2	75	0	54	11	5.1	None
2.06.1	2	81	0	49	25	4.5	None
2.06.2	3	102	0	54	35	3.9	None
2.06.3	2	81	0	30	15	6.4	None
2.06.4	1	56	0	56	22	4.4	None
2.06.5	1	61	0	57	15	4.7	None
2.06.6	2	71	0	38	15	5.9	None
2.06.8	2	76	0	32	10	6.8	None
2.06.9	2	82	0	53	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)		
2.06.10	2	83	0	47	33	4.3	None
2.06.11	2	75	0	54	11	5.1	None
2.07.1	2	81	0	50	25	4.6	None
2.07.2	3	102	0	54	35	3.9	None
2.07.3	2	81	0	30	16	6.4	None
2.07.4	1	56	0	57	21	4.4	None
2.07.5	1	61	0	56	15	4.8	None
2.07.6	2	71	0	35	16	6.1	None
2.07.8	2	76	0	30	10	6.9	None
2.07.9	2	82	0	53	27	4.4	None
2.07.10	2	83	0	48	33	4.3	None
2.07.11	2	75	0	55	11	5.0	None
2.08.1	2	81	0	50	25	4.5	None
2.08.2	3	102	0	54	35	3.9	None
2.08.3	2	81	0	29	16	6.4	None
2.08.4	1	56	0	56	21	4.4	None
2.08.5	1	61	0	54	15	4.9	None
2.08.6	2	71	0	34	16	6.2	None
2.08.8	2	76	0	28	10	7.1	None
2.08.9	2	82	0	52	27	4.4	None
2.08.10	2	83	0	49	33	4.3	None
2.08.11	2	75	0	55	11	5.0	None
2.09.1	2	81	0	51	24	4.4	None
2.09.2	3	102	0	54	34	3.9	None
2.09.3	2	81	0	28	16	6.6	None
2.09.4	1	56	0	56	21	4.4	None
2.09.5	1	61	0	54	15	4.9	None
2.09.6	2	71	0	33	15	6.3	None
2.09.8	2	76	0	27	10	7.2	None
2.09.9	2	82	0	49	25	4.6	None
2.09.10	2	83	0	49	32	4.3	None
2.09.11	2	75	0	56	10	5.0	None

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

Certificate #: 0000990960						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)		
2.10.1	2	81	0	54	20	4.6	None
2.10.2	3	102	0	57	29	4.1	None
2.10.3	2	81	0	30	14	6.7	None
2.10.4	1	56	0	56	21	4.4	None
2.10.5	1	61	0	56	14	4.9	None
2.10.6	2	71	0	35	13	6.3	None
2.10.8	2	76	0	31	10	6.9	None
2.10.9	2	82	0	57	20	4.4	None
2.10.10	2	83	0	62	30	3.9	None
2.10.11	2	75	0	62	9	4.8	None
2.11.1	2	81	0	54	20	4.6	None
2.11.2	3	102	0	57	29	4.1	None
2.11.3	2	81	0	33	12	6.5	None
2.11.4	1	56	0	56	21	4.4	None
2.11.5	1	61	0	55	13	4.9	None
2.11.6	2	71	0	35	13	6.3	None
2.11.8	3	117	0	63	15	4.4	None
2.11.10	3	119	0	58	13	4.8	Low-e glazing throughout living and kitchen
2.12.1	2	81	0	54	20	4.6	None
2.12.2	3	113	0	63	40	3.6	None
2.12.3	2	78	0	50	17	4.9	None
2.12.4	2	77	0	35	13	6.3	None
2.12.5	1	61	0	56	14	4.9	None
2.12.6	1	54	0	45	17	5.3	None
2.12.7	1	51	0	42	11	5.9	None
2.12.8	1	51	0	42	11	5.9	None
2.12.9	2	82	0	45	19	5.1	R1.2 open sub floor insulation
2.12.10	2	83	0	60	30	3.9	R1.2 open sub floor insulation
2.12.11	2	75	0	57	9	4.9	None
2.13.1	2	81	0	55	20	4.6	None
2.13.2	3	113	0	66	38	3.4	None
2.13.3	2	78	0	51	18	4.9	None

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

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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)		
2.13.4	2	77	0	43	13	5.7	None
2.13.5	1	61	0	56	14	4.9	None
2.13.6	1	54	0	46	18	5.2	None
2.13.7	1	51	0	49	11	5.4	None
2.13.8	1	51	0	42	11	5.9	None
2.13.9	2	82	0	43	19	5.3	None
2.13.10	2	83	0	50	27	4.4	None
2.13.11	2	75	0	59	9	4.9	None
2.14.1	2	81	0	55	20	4.5	None
2.14.2	3	113	0	66	38	3.4	None
2.14.3	2	78	0	51	18	4.9	None
2.14.4	2	77	0	44	13	5.7	None
2.14.5	1	61	0	56	14	4.8	None
2.14.6	1	54	0	46	17	5.2	None
2.14.7	1	51	0	49	11	5.4	None
2.14.8	1	51	0	42	11	5.9	None
2.14.9	2	82	0	44	18	5.3	None
2.14.10	2	83	0	51	27	4.4	None
2.14.11	2	75	0	59	9	4.9	None
2.15.1	2	81	0	55	20	4.5	None
2.15.2	3	113	0	62	34	3.8	None
2.15.3	2	78	0	52	17	4.9	None
2.15.4	2	77	0	44	12	5.7	None
2.15.5	1	61	0	56	14	4.8	None
2.15.6	1	54	0	46	17	5.2	None
2.15.7	1	51	0	49	11	5.4	None
2.15.8	1	51	0	42	11	5.9	None
2.15.9	2	82	0	44	18	5.3	None
2.15.10	2	83	0	51	27	4.4	None
2.15.11	2	75	0	59	10	4.9	None
2.16.1	2	81	0	55	20	4.5	None
2.16.2	3	113	0	62	35	3.8	None

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

Certificate #: 0000990960						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)		
2.16.3	2	78	0	52	17	4.9	None
2.16.4	2	77	0	44	12	5.7	None
2.16.5	1	61	0	56	14	4.8	None
2.16.6	1	54	0	46	17	5.2	None
2.16.7	1	51	0	49	11	5.4	None
2.16.8	1	51	0	43	11	5.9	None
2.16.9	2	82	0	43	18	5.3	None
2.16.10	2	83	0	51	26	4.4	None
2.16.11	2	75	0	59	10	4.9	None
2.17.1	2	81	0	56	20	4.4	None
2.17.2	3	113	0	62	34	3.8	None
2.17.3	2	78	0	52	17	4.9	None
2.17.4	2	77	0	44	12	5.7	None
2.17.5	1	61	0	56	13	4.8	None
2.17.6	1	54	0	46	17	5.2	None
2.17.7	1	51	0	50	11	5.4	None
2.17.8	1	51	0	43	11	5.8	None
2.17.9	2	82	0	44	19	5.3	None
2.17.10	2	83	0	51	27	4.4	None
2.17.11	2	75	0	59	9	4.9	None
2.18.1	2	81	0	56	19	4.4	None
2.18.2	3	113	0	62	34	3.8	None
2.18.3	2	78	0	52	17	4.9	None
2.18.4	2	77	0	44	12	5.7	None
2.18.5	1	61	0	57	13	4.8	None
2.18.6	1	54	0	47	17	5.2	None
2.18.7	1	51	0	50	11	5.4	None
2.18.8	1	51	0	43	11	5.8	None
2.18.9	2	82	0	44	18	5.3	None
2.18.10	2	83	0	52	26	4.4	None
2.18.11	2	75	0	59	10	4.9	None
2.19.1	2	81	0	56	20	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)		
2.19.2	3	113	0	62	34	3.8	None
2.19.3	2	78	0	52	17	4.9	None
2.19.4	2	77	0	44	12	5.7	None
2.19.5	1	61	0	57	14	4.8	None
2.19.6	1	54	0	45	17	5.3	None
2.19.7	1	51	0	50	11	5.4	None
2.19.8	1	51	0	43	11	5.8	None
2.19.9	2	82	0	44	18	5.3	None
2.19.10	2	83	0	52	26	4.4	None
2.19.11	2	75	0	59	9	4.9	None
2.20.1	2	81	0	56	20	4.4	None
2.20.2	3	113	0	63	34	3.8	None
2.20.3	2	78	0	53	17	4.8	None
2.20.4	2	77	0	44	12	5.7	None
2.20.5	1	61	0	57	13	4.8	None
2.20.6	1	54	0	45	17	5.3	None
2.20.7	1	51	0	50	11	5.4	None
2.20.8	1	51	0	43	11	5.8	None
2.20.9	2	82	0	44	18	5.3	None
2.20.10	2	83	0	52	26	4.4	None
2.20.11	2	75	0	59	9	4.9	None
2.21.1	2	81	0	56	20	4.4	None
2.21.2	3	113	0	63	34	3.8	None
2.21.3	2	78	0	53	18	4.8	None
2.21.4	2	77	0	45	12	5.7	None
2.21.5	1	61	0	57	13	4.8	None
2.21.6	1	54	0	45	17	5.3	None
2.21.7	1	51	0	50	11	5.4	None
2.21.8	1	51	0	44	11	5.8	None
2.21.9	2	82	0	44	18	5.3	None
2.21.10	2	83	0	52	26	4.4	None
2.21.11	2	75	0	60	9	4.9	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)		
2.22.1	2	81	0	56	19	4.4	None
2.22.2	3	113	0	63	34	3.8	None
2.22.3	2	78	0	53	17	4.8	None
2.22.4	2	77	0	45	12	5.7	None
2.22.5	1	61	0	60	13	4.7	None
2.22.6	1	54	0	48	17	5.1	None
2.22.7	1	51	0	53	11	5.2	None
2.22.8	1	51	0	44	11	5.8	None
2.22.9	2	82	0	44	18	5.3	None
2.22.10	2	83	0	52	25	4.4	None
2.22.11	2	75	0	60	9	4.9	None
2.23.1	2	81	0	57	19	4.4	None
2.23.2	3	113	0	63	34	3.8	None
2.23.3	2	78	0	53	17	4.9	None
2.23.4	2	77	0	45	12	5.6	None
2.23.5	3	110	0	39	12	6.1	None
2.23.7	3	102	0	39	14	5.9	None
2.23.9	2	82	0	44	18	5.3	None
2.23.10	2	83	0	53	25	4.4	None
2.23.11	2	75	0	60	9	4.9	None
2.24.1	2	81	0	57	19	4.4	None
2.24.2	3	113	0	63	34	3.8	None
2.24.3	2	78	0	53	17	4.8	None
2.24.4	2	77	0	45	12	5.7	None
2.24.5	3	110	0	39	12	6.1	None
2.24.7	3	102	0	38	11	6.2	None
2.24.9	2	82	0	45	18	5.3	None
2.24.10	2	83	0	53	25	4.4	None
2.24.11	2	75	0	60	9	4.9	None
2.25.1	2	81	0	57	19	4.4	None
2.25.2	3	113	0	64	34	3.8	None
2.25.3	2	78	0	53	17	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)		
2.25.4	2	77	0	45	12	5.6	None
2.25.5	3	110	0	46	19	5.1	None
2.25.7	3	102	0	39	11	6.2	None
2.25.9	2	82	0	45	18	5.3	None
2.25.10	2	83	0	53	25	4.4	None
2.25.11	2	75	0	60	9	4.9	None
2.26.1	2	81	0	57	19	4.4	None
2.26.2	3	113	0	64	34	3.8	None
2.26.3	2	78	0	53	17	4.8	None
2.26.4	2	77	0	45	12	5.6	None
2.26.5	3	110	0	52	12	5.2	None
2.26.7	3	102	0	39	11	6.2	None
2.26.9	2	82	0	45	18	5.3	None
2.26.10	2	83	0	53	25	4.4	None
2.26.11	2	75	0	60	9	4.9	None
2.27.1	2	81	0	57	19	4.4	None
2.27.2	3	113	0	64	34	3.8	None
2.27.3	2	78	0	54	17	4.8	None
2.27.4	2	77	0	45	12	5.6	None
2.27.5	3	110	0	52	12	5.2	None
2.27.7	3	102	0	39	11	6.2	None
2.27.9	2	82	0	45	18	5.3	None
2.27.10	2	83	0	53	25	4.4	None
2.27.11	2	75	0	60	9	4.9	None
2.28.1	2	81	0	59	17	4.4	Low-e glazing throughout living and kitchen
2.28.2	3	113	0	60	28	3.9	Low-e glazing throughout living and kitchen
2.28.3	2	78	0	64	16	4.4	None
2.28.4	2	77	0	55	10	4.9	None
2.28.5	3	110	0	52	12	5.2	None
2.28.7	3	102	0	39	11	6.2	None
2.28.9	2	82	0	45	18	5.3	None
2.28.10	2	83	0	53	26	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)		
2.28.11	2	75	0	61	9	4.8	None
2.29.5	3	110	0	52	12	5.1	None
2.29.7	3	102	0	39	11	6.2	None
2.29.9	2	82	0	48	18	5.1	None
2.29.10	2	83	0	53	26	4.4	None
2.29.11	2	75	0	61	9	4.8	None
2.30.5	3	110	0	52	12	5.2	None
2.30.7	3	103	0	39	11	6.1	None
2.30.9	2	82	0	48	17	5.1	None
2.30.10	2	83	0	53	25	4.4	None
2.30.11	2	75	0	61	9	4.8	None
2.31.5	3	110	0	63	13	4.4	R2.5 ceiling insulation
2.31.7	3	103	0	54	11	5.1	
2.31.9	2	82	0	60	17	4.4	
2.31.10	2	83	0	65	24	3.9	R2.5 ceiling insulation
2.31.11	2	75	0	65	8	4.7	Low-e glazing throughout living and kitchen and an R2.5 ceiling insulation
Building 3							
3.01.2	2	82	0	26	17	6.7	None
3.01.3	1	59	0	40	19	5.4	None
3.01.4	2	83	0	53	13	5.1	None
3.02.1	2	79	0	47	17	5.2	None
3.02.2	2	82	0	17	18	7.3	None
3.02.3	3	59	0	36	19	5.8	None
3.02.4	1	50	0	53	15	4.9	None
3.02.5	1	50	0	59	15	4.6	None
3.02.6	1	50	0	59	21	4.4	None
3.02.7	3	118	0	38	22	5.4	R1.2 open sub floor insulation
3.02.8	2	87	0	59	21	4.4	R1.2 open sub floor insulation
3.03.1	2	79	0	44	16	5.4	None
3.03.2	2	82	0	20	15	7.3	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)		
3.03.3	1	59	0	36	19	5.8	None
3.03.4	1	50	0	54	15	4.9	None
3.03.5	1	50	0	54	15	4.9	None
3.03.6	1	50	0	55	16	4.8	None
3.03.7	3	118	0	35	17	5.9	None
3.03.8	2	87	0	50	16	5.0	None
3.04.1	2	79	0	44	16	5.4	None
3.04.2	2	82	0	21	14	7.3	None
3.04.3	1	56	0	46	15	5.4	None
3.04.4	1	50	0	55	14	4.9	None
3.04.5	1	50	0	55	14	4.9	None
3.04.6	1	50	0	55	17	4.7	None
3.04.7	3	118	0	36	16	5.9	None
3.04.8	2	87	0	52	15	4.9	None
3.05.1	2	79	0	45	16	5.4	None
3.05.2	2	82	0	21	14	7.3	None
3.05.3	1	56	0	47	15	5.3	None
3.05.4	1	50	0	59	15	4.6	None
3.05.5	1	50	0	55	14	4.9	None
3.05.6	1	50	0	56	16	4.7	None
3.05.7	3	118	0	36	16	5.9	None
3.05.8	2	87	0	52	15	4.9	None
3.06.1	2	79	0	46	15	5.4	None
3.06.2	2	82	0	22	14	7.3	None
3.06.3	1	56	0	47	15	5.3	None
3.06.4	1	50	0	59	15	4.6	None
3.06.5	1	50	0	56	14	4.8	None
3.06.6	1	50	0	57	16	4.6	None
3.06.7	3	118	0	37	16	5.9	None
3.06.8	2	87	0	52	15	4.9	None
3.07.1	2	79	0	46	15	5.4	None
3.07.2	2	82	0	22	14	7.3	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)		
3.07.3	1	56	0	48	15	5.3	None
3.07.4	1	50	0	60	15	4.6	None
3.07.5	1	50	0	57	14	4.8	None
3.07.6	1	50	0	58	16	4.6	None
3.07.7	3	118	0	37	16	5.9	None
3.07.8	2	87	0	53	14	4.9	None
3.08.1	2	79	0	49	14	5.2	None
3.08.3	1	56	0	51	14	5.1	None
3.08.4	1	50	0	57	14	4.8	None
3.08.5	1	50	0	57	14	4.8	None
3.08.6	1	50	0	58	16	4.6	None
3.08.7	3	118	0	38	16	5.9	None
3.08.8	2	87	0	53	14	4.9	None
3.09.1	2	79	0	63	14	4.4	None
3.09.3	1	56	0	66	14	4.4	None
3.09.4	1	50	0	62	12	4.6	Low-e glazing throughout living and kitchen
3.09.5	1	50	0	62	12	4.6	Low-e glazing throughout living and kitchen
3.09.6	1	50	0	75	14	3.9	None
3.09.7	3	118	0	53	15	4.9	None
3.09.8	2	87	0	60	13	4.6	None
Building 4							
4.01.9	2	76	0	34	28	5.3	None
4.01.10	2	75	0	34	25	5.4	None
4.01.11	1	49	0	59	25	4.2	None
4.01.12	2	78	0	35	19	5.8	None
4.01.13	1	49	0	59	25	4.2	None
4.01.14	2	75	0	40	19	4.9	None
4.01.15	1	51	0	61	24	4.2	None
4.02.1	2	98	0	64	18	4.3	Low-e glazing to first floor and master bedroom
4.02.2	3	147	0	56	46	3.6	None
4.02.3	2	97	0	22	21	6.6	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)		
4.02.4	2	97	0	22	22	6.6	None
4.02.5	2	97	0	22	22	6.6	None
4.02.6	2	97	0	22	22	6.6	None
4.02.7	2	101	0	27	25	5.9	R1.2 open sub floor insulation
4.02.8	1	63	0	65	23	4.0	Low-e glazing throughout and R1.2 open sub floor insulation
4.02.9	2	76	0	31	29	5.4	None
4.02.10	2	75	0	31	26	5.6	None
4.02.11	1	49	0	55	29	4.2	None
4.02.12	2	78	0	17	23	6.9	None
4.02.13	1	49	0	55	24	4.4	None
4.02.14	2	75	0	46	20	5.1	None
4.02.15	1	51	0	57	24	4.3	None
4.03.9	2	76	0	35	22	5.7	None
4.03.10	2	75	0	35	20	5.8	None
4.03.11	1	49	0	56	28	4.2	None
4.03.12	2	78	0	17	22	6.9	None
4.03.13	2	49	0	62	18	4.4	None
4.03.14	2	75	0	47	19	5.0	None
4.03.15	1	51	0	58	17	4.5	None
4.04.1	1	56	0	57	20	4.4	Low-e glazing throughout
4.04.2	2	79	0	28	11	7.0	None
4.04.3	1	51	0	23	11	7.4	None
4.04.4	1	51	0	23	11	7.4	None
4.04.5	1	51	0	23	11	7.4	None
4.04.6	1	51	0	23	11	7.4	None
4.04.7	2	81	0	40	21	5.4	R1.2 open sub floor insulation
4.04.8	1	51	0	55	20	4.5	Low-e glazing throughout and R1.2 open sub floor insulation
4.04.9	2	76	0	35	21	5.7	None
4.04.10	2	75	0	35	19	5.8	None
4.04.11	1	49	0	57	27	4.2	None
4.04.12	2	78	0	21	20	6.9	None

Thermal Comfort Results

Proposed Residential Development
2 Figtree Drive
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Issued in accordance with **BASIX** Thermal Comfort Simulation Method

Certificate #: 0000990960						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)		
4.04.13	1	49	0	63	17	4.4	None
4.04.14	2	75	0	51	13	5.2	None
4.04.15	1	51	0	58	17	4.5	None
4.05.1	1	55	0	57	18	4.4	None
4.05.2	2	80	0	29	11	6.9	None
4.05.3	1	52	0	32	10	6.8	None
4.05.4	1	51	0	27	10	7.2	None
4.05.5	1	52	0	27	10	7.2	None
4.05.6	1	52	0	27	10	7.2	None
4.05.7	2	81	0	42	20	5.3	None
4.05.8	1	51	0	56	19	4.5	Low-e glazing throughout
4.05.9	2	76	0	36	21	5.7	None
4.05.10	2	75	0	36	19	5.7	None
4.05.11	1	49	0	53	23	4.4	None
4.05.12	2	78	0	21	19	6.9	None
4.05.13	1	49	0	64	17	4.3	None
4.05.14	2	75	0	51	13	5.2	None
4.05.15	1	51	0	59	17	4.4	None
4.06.1	1	55	0	58	18	4.4	None
4.06.2	2	80	0	29	10	6.9	None
4.06.3	1	52	0	33	10	6.7	None
4.06.4	1	51	0	28	10	7.2	None
4.06.5	1	52	0	27	10	7.2	None
4.06.6	1	52	0	28	10	7.2	None
4.06.7	2	81	0	42	20	5.8	None
4.06.8	1	51	0	57	19	4.4	Low-e glazing throughout
4.06.9	2	76	0	36	20	5.6	None
4.06.10	2	75	0	37	19	5.7	None
4.06.11	1	49	0	54	23	4.4	None
4.06.12	2	78	0	19	19	7.1	None
4.06.13	1	49	0	65	17	4.3	None
4.06.14	2	75	0	52	13	5.1	None

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

Certificate #: 0000990960						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)		
4.06.15	1	51	0	60	16	4.4	None
4.07.1	1	55	0	58	18	4.4	None
4.07.2	2	80	0	30	10	6.9	None
4.07.3	1	52	0	34	10	6.7	None
4.07.4	1	51	0	28	10	7.1	None
4.07.5	1	52	0	28	10	7.1	None
4.07.6	1	52	0	28	10	7.2	None
4.07.7	2	81	0	43	19	5.3	None
4.07.8	1	51	0	57	19	4.4	Low-e glazing throughout
4.07.9	2	76	0	37	20	5.6	None
4.07.10	2	75	0	37	18	5.7	None
4.07.11	1	49	0	54	22	4.4	None
4.07.12	2	78	0	19	18	7.2	None
4.07.13	1	49	0	65	16	4.3	None
4.07.14	2	75	0	53	13	5.1	None
4.07.15	1	51	0	61	16	4.4	None
4.08.1	1	55	0	59	18	4.4	None
4.08.2	2	82	0	38	10	6.9	None
4.08.3	1	52	0	34	10	6.6	None
4.08.4	1	51	0	29	10	7.1	None
4.08.5	1	52	0	28	10	7.1	None
4.08.6	1	52	0	29	10	7.1	None
4.08.7	2	81	0	43	19	5.3	None
4.08.8	1	51	0	57	20	4.4	Low-e glazing throughout
4.08.9	2	76	0	37	20	5.6	None
4.08.10	2	75	0	37	18	5.7	None
4.08.11	1	49	0	59	21	4.4	None
4.08.13	1	49	0	55	15	4.8	None
4.08.14	2	75	0	53	13	5.1	None
4.08.15	1	51	0	61	16	4.4	None
4.09.1	1	55	0	58	18	4.4	Low-e glazing thoughout living and kitchen
4.09.2	2	82	0	31	10	6.9	None

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

Certificate #: 0000990960						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)		
4.09.3	1	52	0	29	10	7.1	None
4.09.4	1	52	0	29	10	7.1	None
4.09.5	1	52	0	29	10	7.1	None
4.09.6	1	52	0	29	10	7.0	None
4.09.7	2	81	0	45	20	5.1	None
4.09.8	1	51	0	57	20	4.4	None
4.09.9	2	76	0	38	20	5.6	None
4.09.10	2	75	0	38	18	5.7	None
4.09.11	1	49	0	55	22	4.4	None
4.09.13	1	49	0	53	15	4.9	Low-e glazing throughout living and kitchen
4.09.14	2	75	0	53	12	5.0	None
4.09.15	1	51	0	61	16	4.4	None
4.10.1	1	55	0	66	17	4.2	None
4.10.2	2	82	0	41	10	5.9	None
4.10.3	1	52	0	37	10	6.4	None
4.10.4	1	52	0	38	10	6.3	None
4.10.5	1	52	0	32	10	6.9	None
4.10.6	1	52	0	35	10	6.4	None
4.10.7	2	81	0	44	19	5.2	None
4.10.8	1	51	0	66	19	4.2	None
4.10.9	2	76	0	38	20	5.6	None
4.10.10	2	75	0	42	16	5.4	None
4.10.11	1	50	0	61	21	4.3	None
4.10.13	1	49	0	58	14	4.7	Low-e glazing throughout living and kitchen
4.10.14	2	75	0	59	10	4.9	None
4.10.15	1	51	0	64	13	4.4	None
4.11.3	1	51	0	63	18	4.3	None
4.11.5	1	51	0	55	20	4.4	None
4.11.9	1	50	0	36	20	5.7	None
4.11.10	2	75	0	40	13	5.9	None
4.11.11	2	82	0	58	27	4.2	None
4.11.13	3	117	0	66	22	4.1	Low-e living and master and R1.2 sub floor

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

Certificate #: 0000990960						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)		
4.11.14	1	57	0	58	12	4.8	None
4.11.15	1	51	0	65	12	4.4	None
4.12.1	1	52	0	66	22	4.0	None
4.12.2	2	74	0	48	17	5.0	None
4.12.3	1	51	0	56	10	5.1	None
4.12.5	1	51	0	54	10	5.2	None
4.12.7	2	88	0	51	15	4.9	R1.2 open sub floor insulation
4.12.9	1	50	0	36	20	5.7	None
4.12.10	2	75	0	40	13	5.9	None
4.12.11	2	82	0	58	27	4.2	None
4.12.13	3	117	0	63	21	4.2	Low-e glazing throughout living kitchen area master
4.12.14	1	57	0	59	12	4.8	None
4.12.15	1	51	0	65	12	4.4	None
4.13.1	1	52	0	64	22	4.1	None
4.13.2	2	74	0	49	17	5.1	None
4.13.3	1	51	0	51	10	5.4	None
4.13.5	1	51	0	50	10	5.4	None
4.13.7	2	88	0	47	16	5.3	None
4.13.9	1	50	0	36	20	5.7	None
4.13.10	2	75	0	40	13	5.9	None
4.13.11	2	82	0	58	27	4.2	None
4.13.13	3	117	0	63	21	4.2	Low-e glazing to living, dining kitchen area and master
4.13.14	1	57	0	59	12	4.8	None
4.13.15	1	51	0	65	12	4.4	None
4.14.1	1	52	0	64	22	4.1	None
4.14.2	2	74	0	45	17	5.3	None
4.14.3	1	51	0	52	10	5.3	None
4.14.5	1	51	0	50	10	5.4	None
4.14.7	2	88	0	47	16	5.3	None
4.14.9	1	50	0	36	19	5.8	None
4.14.10	2	75	0	40	13	5.9	None
4.14.11	2	82	0	59	27	4.1	None

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

Certificate #: 0000990960						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)		
4.14.13	3	117	0	64	21	4.2	Low-e glazing throughout living kitchen area master
4.14.14	1	57	0	59	11	4.8	None
4.14.15	1	51	0	66	12	4.4	None
4.15.1	1	52	0	65	22	4.1	None
4.15.2	2	74	0	45	17	5.3	None
4.15.3	1	52	0	52	10	5.3	None
4.15.5	1	51	0	51	10	5.4	None
4.15.7	2	88	0	48	15	5.2	None
4.15.9	1	50	0	37	18	5.8	None
4.15.10	2	75	0	40	13	5.9	None
4.15.11	2	82	0	59	27	4.1	None
4.15.13	3	117	0	64	21	4.2	Low-e glazing throughout living kitchen area master
4.15.14	1	57	0	59	11	4.8	None
4.15.15	1	51	0	66	12	4.4	None
4.16.1	1	52	0	65	22	4.1	None
4.16.2	1	74	0	46	17	5.3	None
4.16.3	1	52	0	56	10	5.0	None
4.16.5	1	51	0	51	10	5.4	None
4.16.7	2	88	0	48	15	5.2	None
4.16.9	1	50	0	37	18	5.8	None
4.16.10	2	75	0	41	13	5.9	None
4.16.11	2	82	0	59	27	4.1	None
4.16.13	3	117	0	64	21	4.2	Low-e glazing throughout living kitchen area master
4.16.14	1	57	0	60	11	4.8	None
4.16.15	1	51	0	66	12	4.4	None
4.17.1	1	52	0	65	22	4.1	None
4.17.3	2	85	0	59	15	4.5	None
4.17.5	2	78	0	55	12	4.9	None
4.17.7	3	88	0	47	17	5.2	None
4.17.9	1	50	0	37	18	5.8	None
4.17.10	2	75	0	41	13	5.9	None
4.17.11	2	82	0	60	27	4.1	None

Thermal Comfort Results
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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)		
4.17.13	3	117	0	64	21	4.2	Low-e glazing throughout living kitchen area master
4.17.14	1	57	0	60	11	4.8	None
4.17.15	1	51	0	65	12	4.4	None
4.18.1	1	52	0	65	22	4.0	None
4.18.3	2	85	0	60	15	4.5	None
4.18.5	2	78	0	56	12	4.9	None
4.18.7	3	88	0	47	17	5.2	None
4.18.9	1	50	0	37	18	5.8	None
4.18.10	2	75	0	41	13	5.9	None
4.18.11	2	82	0	60	27	4.1	None
4.18.13	3	117	0	64	21	4.2	Low-e glazing to living, dining kitchen area and master
4.18.14	1	57	0	60	44	4.8	None
4.18.15	1	51	0	66	12	4.4	None
4.19.1	1	52	0	66	22	4.0	None
4.19.3	2	85	0	60	15	4.4	None
4.19.5	2	78	0	56	12	4.9	None
4.19.7	3	88	0	47	17	5.2	None
4.19.9	1	50	0	37	18	5.8	None
4.19.10	2	75	0	41	13	5.9	None
4.19.11	2	82	0	60	27	4.1	None
4.19.13	3	117	0	65	21	4.2	Low-e glazing throughout living kichen area master
4.19.14	1	57	0	60	11	4.8	None
4.19.15	1	51	0	66	12	4.4	None
4.20.1	1	52	0	66	21	4.1	None
4.20.3	2	85	0	60	15	4.4	None
4.20.5	2	78	0	56	12	4.9	None
4.20.7	3	88	0	47	17	5.2	None
4.20.9	1	50	0	37	18	5.8	None
4.20.10	2	75	0	41	13	5.9	None
4.20.11	2	82	0	60	26	4.1	None
4.20.13	3	117	0	65	20	4.2	Low-e glazing throughout living kitchen area master
4.20.14	1	57	0	60	11	4.7	None

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

Certificate #: 0000990960						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)		
4.20.15	1	51	0	66	12	4.4	None
4.21.1	1	52	0	66	21	4.1	None
4.21.3	2	85	0	60	15	4.5	None
4.21.5	2	78	0	56	12	4.9	None
4.21.7	3	88	0	47	17	5.2	None
4.21.9	1	50	0	37	18	5.7	None
4.21.10	2	75	0	41	13	5.8	None
4.21.11	2	82	0	60	26	4.1	None
4.21.13	3	117	0	65	19	4.2	Low-e glazing throughout living kitchen area master
4.21.14	1	57	0	61	11	4.7	None
4.21.15	1	51	0	65	12	4.4	None
4.22.1	1	52	0	66	21	4.0	None
4.22.2	2	85	0	60	15	4.4	None
4.22.5	2	78	0	56	12	4.9	None
4.22.7	3	88	0	47	17	5.2	None
4.22.9	1	50	0	38	18	5.7	None
4.22.10	2	75	0	41	13	5.8	None
4.22.11	2	82	0	60	26	4.1	None
4.22.13	3	117	2	65	20	4.2	Low-e glazing throughout living kitchen area master
4.22.14	1	57	0	61	11	4.7	None
4.22.15	1	51	0	65	12	4.4	None
4.23.1	1	52	0	64	20	4.2	Low-e glazing throughout living and kitchen
4.23.2	2	85	0	58	14	4.7	Low-e glazing throughout living and kitchen
4.23.5	2	78	0	66	11	4.4	None
4.23.7	3	88	0	57	16	4.7	None
4.23.9	1	50	0	48	17	5.1	None
4.23.10	2	75	0	49	12	5.3	None
4.23.11	2	82	0	62	20	4.3	Low-e glazing throughout living and kitchen
4.23.13	3	117	0	66	17	4.2	Low-e glazing throughout and an R2.5 ceiling insulation
4.23.14	1	57	0	65	11	4.4	Low-e glazing throughout living and kitchen
4.23.15	1	51	0	63	11	4.6	Low-e glazing throughout

Nationwide House Energy Rating Scheme* — Class 2 summary



Certificate number: **0000990960**

Certificate Date: **18 Nov 2016**

★ Average Star rating: **5.1**

Assessor details

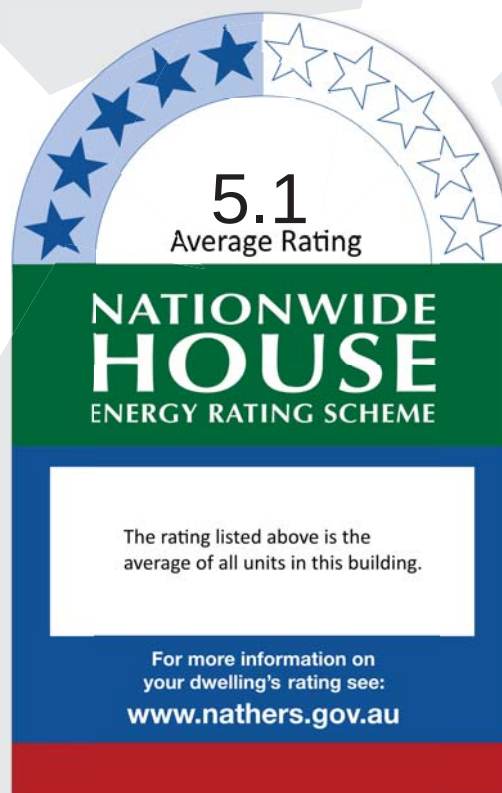
Accreditation number: **VIC/BDAV/12/1473**
Name: **Tracey Cools**
Organisation: **Efficient Living**
Email: **admin@efficientliving.com.au**
Phone: **(02) 9970 6181**
Declaration of interest: **None**
Software: **BERS Pro v4.3.0.1 (3.13)**

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
0000798769-02	1.01.2	35	22	56	5.7
0000798801-02	1.01.3	31	18	49	6.2
0000798835-02	1.01.4	31	18	49	6.2
0000798868-02	1.01.5	38	19	57	5.7
0000798892-02	1.03.1	59	23	82	4.3
0000798926-02	1.03.2	39	21	59	5.4
0000798967-02	1.03.3	31	20	51	6.1
0000798991-02	1.03.4	30	20	50	6.2
0000799023-02	1.03.5	30	20	50	6.2
0000799056-02	1.03.6	45	31	76	4.4
0000799080-02	1.03.7	49	32	81	4.3
0000799114-02	1.04.1	65	19	85	4.2
0000799148-02	1.04.2	48	15	63	5.3
0000799171-02	1.04.3	39	14	52	5.9
0000799205-02	1.04.4	38	13	51	5.9

BASIX[®]Certificate

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

Multi Dwelling

Certificate number: 650643M_06

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: Friday, 18 November 2016

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_06
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	694
No. of multi-dwelling houses	0
No. of single dwelling houses	0

Project score

Water	✓ 61	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 21	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_06
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	694
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	457
Non-residential car spaces	44

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	0000990960
Climate zone	56

Project score

Water	✓ 61	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 21	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, 65 dwellings, 10 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
301.2	2	82.0	0.0	0.0	0.0
302.2	2	82.0	0.0	0.0	0.0
302.6	1	50.0	0.0	0.0	0.0
303.2	2	82.0	0.0	0.0	0.0
303.6	1	50.0	0.0	0.0	0.0
304.2	2	82.0	0.0	0.0	0.0
304.6	2	50.0	0.0	0.0	0.0
305.2	2	82.0	0.0	0.0	0.0
305.6	2	50.0	0.0	0.0	0.0
306.2	2	82.0	0.0	0.0	0.0
306.6	1	50.0	0.0	0.0	0.0
307.2	2	82.0	0.0	0.0	0.0
307.6	1	50.0	0.0	0.0	0.0
308.3	1	56.0	0.0	0.0	0.0
308.7	3	118.0	0.0	0.0	0.0
309.4	1	50.0	0.0	0.0	0.0
309.8	2	87.0	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)
301.3	1	59.0	0.0	0.0	0.0
302.3	3	59.0	0.0	0.0	0.0
302.7	3	118.0	0.0	0.0	0.0
303.3	1	59.0	0.0	0.0	0.0
303.7	3	118.0	0.0	0.0	0.0
304.3	2	56.0	0.0	0.0	0.0
304.7	3	118.0	0.0	0.0	0.0
305.3	1	56.0	0.0	0.0	0.0
305.7	3	118.0	0.0	0.0	0.0
306.3	1	56.0	0.0	0.0	0.0
306.7	3	118.0	0.0	0.0	0.0
307.3	1	56.0	0.0	0.0	0.0
307.7	3	118.0	0.0	0.0	0.0
308.4	1	50.0	0.0	0.0	0.0
308.8	2	87.0	0.0	0.0	0.0
309.5	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)
301.4	2	83.0	0.0	0.0	0.0
302.4	1	50.0	0.0	0.0	0.0
302.8	2	87.0	0.0	0.0	0.0
303.4	1	50.0	0.0	0.0	0.0
303.8	2	87.0	0.0	0.0	0.0
304.4	2	50.0	0.0	0.0	0.0
304.8	2	87.0	0.0	0.0	0.0
305.4	2	50.0	0.0	0.0	0.0
305.8	2	87.0	0.0	0.0	0.0
306.4	1	50.0	0.0	0.0	0.0
306.8	2	87.0	0.0	0.0	0.0
307.4	1	50.0	0.0	0.0	0.0
307.8	2	87.0	0.0	0.0	0.0
308.5	1	50.0	0.0	0.0	0.0
309.1	2	79.0	0.0	0.0	0.0
309.6	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)
302.1	2	79.0	0.0	0.0	0.0
302.5	1	50.0	0.0	0.0	0.0
303.1	2	79.0	0.0	0.0	0.0
303.5	1	50.0	0.0	0.0	0.0
304.1	2	79.0	0.0	0.0	0.0
304.5	2	50.0	0.0	0.0	0.0
305.1	2	79.0	0.0	0.0	0.0
305.5	1	50.0	0.0	0.0	0.0
306.1	2	79.0	0.0	0.0	0.0
306.5	1	50.0	0.0	0.0	0.0
307.1	2	79.0	0.0	0.0	0.0
307.5	1	50.0	0.0	0.0	0.0
308.1	2	79.0	0.0	0.0	0.0
308.6	1	50.0	0.0	0.0	0.0
309.3	1	56.0	0.0	0.0	0.0
309.7	3	118.0	0.0	0.0	0.0

Residential flat buildings - Building 1, 69 dwellings, 10 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m ²)	Unconditioned floor area (m ²)	Area of garden & lawn (m ²)	Indigenous species (min area m ²)
101.1	2	112.0	0.0	0.0	0.0
101.5	2	107.0	0.0	0.0	0.0
103.4	1	52.0	0.0	0.0	0.0
104.1	2	74.0	0.0	0.0	0.0
104.5	1	51.0	0.0	0.0	0.0
105.2	2	83.0	0.0	0.0	0.0
105.6	2	83.0	0.0	0.0	0.0
106.3	1	52.0	0.0	0.0	0.0
106.7	2	74.0	0.0	0.0	0.0
107.4	1	52.0	0.0	0.0	0.0
108.1	2	74.0	0.0	0.0	0.0
108.5	1	83.0	0.0	0.0	0.0
109.2	2	83.0	0.0	0.0	0.0
109.6	2	83.0	0.0	0.0	0.0
110.3	1	51.0	0.0	0.0	0.0
110.7	2	74.0	0.0	0.0	0.0
111.7	3	108.0	0.0	0.0	0.0
112.7	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)
101.2	3	126.0	0.0	0.0	0.0
103.1	2	74.0	0.0	0.0	0.0
103.5	1	52.0	0.0	0.0	0.0
104.2	2	80.0	0.0	0.0	0.0
104.6	2	80.0	0.0	0.0	0.0
105.3	1	52.0	0.0	0.0	0.0
105.7	2	74.0	0.0	0.0	0.0
106.4	1	52.0	0.0	0.0	0.0
107.1	2	74.0	0.0	0.0	0.0
107.5	1	52.0	0.0	0.0	0.0
108.2	2	83.0	0.0	0.0	0.0
108.6	2	74.0	0.0	0.0	0.0
109.3	1	52.0	0.0	0.0	0.0
109.7	2	74.0	0.0	0.0	0.0
110.4	1	51.0	0.0	0.0	0.0
111.1	3	108.0	0.0	0.0	0.0
112.1	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)
101.3	2	107.0	0.0	0.0	0.0
103.2	2	83.0	0.0	0.0	0.0
103.6	2	83.0	0.0	0.0	0.0
104.3	1	51.0	0.0	0.0	0.0
104.7	2	74.0	0.0	0.0	0.0
105.4	1	52.0	0.0	0.0	0.0
106.1	2	74.0	0.0	0.0	0.0
106.5	1	52.0	0.0	0.0	0.0
107.2	2	83.0	0.0	0.0	0.0
107.6	2	83.0	0.0	0.0	0.0
108.3	1	52.0	0.0	0.0	0.0
108.7	2	74.0	0.0	0.0	0.0
109.4	1	52.0	0.0	0.0	0.0
110.1	2	76.0	0.0	0.0	0.0
110.5	1	51.0	0.0	0.0	0.0
111.3	2	79.0	0.0	0.0	0.0
112.3	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)
101.4	2	107.0	0.0	0.0	0.0
103.3	1	52.0	0.0	0.0	0.0
103.7	2	76.0	0.0	0.0	0.0
104.4	1	51.0	0.0	0.0	0.0
105.1	2	74.0	0.0	0.0	0.0
105.5	1	52.0	0.0	0.0	0.0
106.2	2	83.0	0.0	0.0	0.0
106.6	2	83.0	0.0	0.0	0.0
107.3	1	52.0	0.0	0.0	0.0
107.7	2	74.0	0.0	0.0	0.0
108.4	1	52.0	0.0	0.0	0.0
109.1	2	74.0	0.0	0.0	0.0
109.5	1	52.0	0.0	0.0	0.0
110.2	2	83.0	0.0	0.0	0.0
110.6	2	80.0	0.0	0.0	0.0
111.5	2	79.0	0.0	0.0	0.0
112.5	2	79.0	0.0	0.0	0.0

Residential flat buildings - Building 2, 296 dwellings, 31 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)
201.1	2	81.0	0.0	0.0	0.0
201.8	2	76.0	0.0	0.0	0.0
202.1	2	81.0	0.0	0.0	0.0
202.5	1	61.0	0.0	0.0	0.0
20210	2	83.0	0.0	0.0	0.0
203.3	2	81.0	0.0	0.0	0.0
203.8	2	76.0	0.0	0.0	0.0
204.1	2	81.0	0.0	0.0	0.0
204.5	1	61.0	0.0	0.0	0.0
20410	2	83.0	0.0	0.0	0.0
205.3	2	81.0	0.0	0.0	0.0
205.8	2	76.0	0.0	0.0	0.0
206.1	2	81.0	0.0	0.0	0.0
206.5	1	61.0	0.0	0.0	0.0
20610	2	83.0	0.0	0.0	0.0
207.3	2	81.0	0.0	0.0	0.0
207.8	2	76.0	0.0	2.0	0.0
208.1	2	81.0	0.0	6.0	0.0
208.5	1	61.0	0.0	0.0	0.0
20810	2	83.0	0.0	0.0	0.0
209.3	2	81.0	0.0	0.0	0.0
209.8	2	76.0	0.0	0.0	0.0
210.1	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)
201.2	3	102.0	0.0	0.0	0.0
201.9	2	82.0	0.0	0.0	0.0
202.2	3	102.0	0.0	0.0	0.0
202.6	1	54.0	0.0	0.0	0.0
20211	2	75.0	0.0	0.0	0.0
203.4	1	56.0	0.0	0.0	0.0
203.9	2	82.0	0.0	0.0	0.0
204.2	3	102.0	0.0	0.0	0.0
204.6	2	60.0	0.0	0.0	0.0
20411	2	75.0	0.0	0.0	0.0
205.4	2	56.0	0.0	0.0	0.0
205.9	2	82.0	0.0	0.0	0.0
206.2	3	102.0	0.0	0.0	0.0
206.6	2	71.0	0.0	0.0	0.0
20611	2	75.0	0.0	0.0	0.0
207.4	1	56.0	0.0	7.0	0.0
207.9	2	82.0	0.0	3.0	0.0
208.2	3	102.0	0.0	13.0	0.0
208.6	2	71.0	0.0	0.0	0.0
20811	2	75.0	0.0	0.0	0.0
209.4	1	56.0	0.0	0.0	0.0
209.9	2	82.0	0.0	0.0	0.0
210.2	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)
201.3	2	81.0	0.0	0.0	0.0
20110	2	83.0	0.0	0.0	0.0
202.3	2	81.0	0.0	0.0	0.0
202.8	2	76.0	0.0	0.0	0.0
203.1	2	81.0	0.0	0.0	0.0
203.5	1	61.0	0.0	0.0	0.0
20310	2	83.0	0.0	0.0	0.0
204.3	2	81.0	0.0	0.0	0.0
204.8	2	76.0	0.0	0.0	0.0
205.1	2	81.0	0.0	0.0	0.0
205.5	1	61.0	0.0	0.0	0.0
20510	2	83.0	0.0	0.0	0.0
206.3	2	81.0	0.0	0.0	0.0
206.8	2	76.0	0.0	0.0	0.0
207.1	2	81.0	0.0	0.0	0.0
207.5	1	61.0	0.0	7.0	0.0
20710	2	83.0	0.0	3.0	0.0
208.3	2	81.0	0.0	12.0	0.0
208.8	2	76.0	0.0	0.0	0.0
209.1	2	81.0	0.0	0.0	0.0
209.5	1	61.0	0.0	0.0	0.0
20910	2	83.0	0.0	0.0	0.0
210.3	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)
201.4	1	56.0	0.0	0.0	0.0
20111	2	75.0	0.0	0.0	0.0
202.4	1	56.0	0.0	0.0	0.0
202.9	2	82.0	0.0	0.0	0.0
203.2	3	102.0	0.0	0.0	0.0
203.6	2	71.0	0.0	0.0	0.0
20311	2	75.0	0.0	0.0	0.0
204.4	1	56.0	0.0	0.0	0.0
204.9	2	82.0	0.0	0.0	0.0
205.2	3	102.0	0.0	0.0	0.0
205.6	2	71.0	0.0	0.0	0.0
20511	2	75.0	0.0	0.0	0.0
206.4	1	56.0	0.0	0.0	0.0
206.9	2	82.0	0.0	0.0	0.0
207.2	3	102.0	0.0	0.0	0.0
207.6	2	71.0	0.0	2.0	0.0
20711	2	75.0	0.0	0.0	0.0
208.4	1	56.0	0.0	0.0	0.0
208.9	2	82.0	0.0	0.0	0.0
209.2	3	102.0	0.0	0.0	0.0
209.6	2	71.0	0.0	0.0	0.0
20911	2	75.0	0.0	0.0	0.0
210.4	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)
210.5	1	61.0	0.0	0.0	0.0
21010	2	83.0	0.0	0.0	0.0
211.3	2	81.0	0.0	0.0	0.0
211.8	3	117.0	0.0	0.0	0.0
212.3	2	78.0	0.0	0.0	0.0
212.7	1	51.0	0.0	0.0	0.0
21211	2	75.0	0.0	0.0	0.0
213.4	2	77.0	0.0	0.0	0.0
213.8	1	51.0	0.0	0.0	0.0
214.1	2	81.0	0.0	0.0	0.0
214.5	1	61.0	0.0	0.0	0.0
214.9	2	82.0	0.0	0.0	0.0
215.2	3	113.0	0.0	0.0	0.0
215.6	1	54.0	0.0	0.0	0.0
21510	2	83.0	0.0	0.0	0.0
216.3	2	78.0	0.0	0.0	0.0
216.7	1	51.0	0.0	0.0	0.0
21611	2	75.0	0.0	0.0	0.0
217.4	2	77.0	0.0	0.0	0.0
217.8	1	51.0	0.0	0.0	0.0
218.1	2	81.0	0.0	0.0	0.0
218.5	1	61.0	0.0	0.0	0.0
218.9	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)
210.6	2	71.0	0.0	0.0	0.0
21011	2	75.0	0.0	0.0	0.0
211.4	1	56.0	0.0	0.0	0.0
21110	3	119.0	0.0	0.0	0.0
212.4	2	77.0	0.0	0.0	0.0
212.8	1	51.0	0.0	0.0	0.0
213.1	2	81.0	0.0	0.0	0.0
213.5	1	61.0	0.0	0.0	0.0
213.9	2	82.0	0.0	0.0	0.0
214.2	3	113.0	0.0	0.0	0.0
214.6	1	54.0	0.0	0.0	0.0
21410	2	83.0	0.0	0.0	0.0
215.3	2	78.0	0.0	0.0	0.0
215.7	1	51.0	0.0	0.0	0.0
21511	2	75.0	0.0	0.0	0.0
216.4	2	77.0	0.0	0.0	0.0
216.8	1	51.0	0.0	0.0	0.0
217.1	2	81.0	0.0	0.0	0.0
217.5	1	61.0	0.0	0.0	0.0
217.9	2	82.0	0.0	0.0	0.0
218.2	3	113.0	0.0	0.0	0.0
218.6	2	54.0	0.0	0.0	0.0
21810	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)
210.8	2	76.0	0.0	0.0	0.0
211.1	2	81.0	0.0	0.0	0.0
211.5	1	61.0	0.0	0.0	0.0
212.1	2	81.0	0.0	0.0	0.0
212.5	1	61.0	0.0	0.0	0.0
212.9	2	82.0	0.0	0.0	0.0
213.2	3	113.0	0.0	0.0	0.0
213.6	1	54.0	0.0	0.0	0.0
21310	2	83.0	0.0	0.0	0.0
214.3	2	78.0	0.0	0.0	0.0
214.7	1	51.0	0.0	0.0	0.0
21411	2	75.0	0.0	0.0	0.0
215.4	2	77.0	0.0	0.0	0.0
215.8	1	51.0	0.0	0.0	0.0
216.1	2	81.0	0.0	0.0	0.0
216.5	1	61.0	0.0	0.0	0.0
216.9	2	82.0	0.0	0.0	0.0
217.2	3	113.0	0.0	0.0	0.0
217.6	1	54.0	0.0	0.0	0.0
21710	2	83.0	0.0	0.0	0.0
218.3	2	78.0	0.0	0.0	0.0
218.7	3	51.0	0.0	0.0	0.0
21811	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)
210.9	2	82.0	0.0	0.0	0.0
211.2	3	70.0	0.0	0.0	0.0
211.6	2	71.0	0.0	0.0	0.0
212.2	3	113.0	0.0	0.0	0.0
212.6	1	54.0	0.0	0.0	0.0
21210	2	83.0	0.0	0.0	0.0
213.3	2	78.0	0.0	0.0	0.0
213.7	1	51.0	0.0	0.0	0.0
21311	2	75.0	0.0	0.0	0.0
214.4	2	77.0	0.0	0.0	0.0
214.8	1	51.0	0.0	0.0	0.0
215.1	2	81.0	0.0	0.0	0.0
215.5	1	61.0	0.0	0.0	0.0
215.9	2	82.0	0.0	0.0	0.0
216.2	3	113.0	0.0	0.0	0.0
216.6	1	54.0	0.0	0.0	0.0
21610	2	83.0	0.0	0.0	0.0
217.3	1	78.0	0.0	0.0	0.0
217.7	1	51.0	0.0	0.0	0.0
21711	2	75.0	0.0	0.0	0.0
218.4	2	77.0	0.0	0.0	0.0
218.8	2	51.0	0.0	0.0	0.0
219.1	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)
219.2	3	113.0	0.0	0.0	0.0
219.6	1	54.0	0.0	0.0	0.0
21910	2	83.0	0.0	0.0	0.0
220.3	2	78.0	0.0	0.0	0.0
220.7	1	51.0	0.0	0.0	0.0
22011	2	75.0	0.0	0.0	0.0
221.4	2	77.0	0.0	0.0	0.0
221.8	1	51.0	0.0	0.0	0.0
222.1	2	81.0	0.0	0.0	0.0
222.5	1	61.0	0.0	0.0	0.0
222.9	2	82.0	0.0	0.0	0.0
223.2	3	113.0	0.0	0.0	0.0
223.7	3	102.0	0.0	0.0	0.0
224.1	2	81.0	0.0	0.0	0.0
224.5	3	110.0	0.0	0.0	0.0
22411	2	75.0	0.0	0.0	0.0
225.4	2	77.0	0.0	0.0	0.0
22510	2	83.0	0.0	0.0	0.0
226.3	2	78.0	0.0	0.0	0.0
226.9	2	82.0	0.0	0.0	0.0
227.2	2	113.0	0.0	0.0	0.0
227.7	3	102.0	0.0	0.0	0.0
228.1	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)
219.3	2	78.0	0.0	0.0	0.0
219.7	1	51.0	0.0	0.0	0.0
21911	2	75.0	0.0	0.0	0.0
220.4	2	77.0	0.0	0.0	0.0
220.8	2	51.0	0.0	0.0	0.0
221.1	2	81.0	0.0	0.0	0.0
221.5	1	61.0	0.0	0.0	0.0
221.9	2	82.0	0.0	0.0	0.0
222.2	3	113.0	0.0	0.0	0.0
222.6	1	54.0	0.0	0.0	0.0
22210	2	83.0	0.0	0.0	0.0
223.3	2	78.0	0.0	0.0	0.0
223.9	2	82.0	0.0	0.0	0.0
224.2	3	113.0	0.0	0.0	0.0
224.7	3	102.0	0.0	0.0	0.0
225.1	2	81.0	0.0	0.0	0.0
225.5	3	110.0	0.0	0.0	0.0
22511	2	75.0	0.0	0.0	0.0
226.4	2	77.0	0.0	0.0	0.0
22610	2	83.0	0.0	0.0	0.0
227.3	2	78.0	0.0	0.0	0.0
227.9	2	82.0	0.0	0.0	0.0
228.2	3	113.0	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)
219.4	2	77.0	0.0	0.0	0.0
219.8	1	51.0	0.0	0.0	0.0
220.1	2	81.0	0.0	0.0	0.0
220.5	1	61.0	0.0	0.0	0.0
220.9	2	82.0	0.0	0.0	0.0
221.2	3	113.0	0.0	0.0	0.0
221.6	1	54.0	0.0	0.0	0.0
22110	2	83.0	0.0	0.0	0.0
222.3	2	78.0	0.0	0.0	0.0
222.7	1	51.0	0.0	0.0	0.0
22211	3	75.0	0.0	0.0	0.0
223.4	2	77.0	0.0	0.0	0.0
22310	2	83.0	0.0	0.0	0.0
224.3	2	78.0	0.0	0.0	0.0
224.9	2	82.0	0.0	0.0	0.0
225.2	3	113.0	0.0	0.0	0.0
225.7	3	102.0	0.0	0.0	0.0
226.1	2	81.0	0.0	0.0	0.0
226.5	3	110.0	0.0	0.0	0.0
22611	2	75.0	0.0	0.0	0.0
227.4	2	77.0	0.0	0.0	0.0
22710	2	83.0	0.0	0.0	0.0
228.3	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)
219.5	1	61.0	0.0	0.0	0.0
219.9	2	82.0	0.0	0.0	0.0
220.2	3	113.0	0.0	0.0	0.0
220.6	1	54.0	0.0	0.0	0.0
22010	2	83.0	0.0	0.0	0.0
221.3	2	78.0	0.0	0.0	0.0
221.7	1	51.0	0.0	0.0	0.0
22111	2	75.0	0.0	0.0	0.0
222.4	2	77.0	0.0	0.0	0.0
222.8	1	51.0	0.0	0.0	0.0
223.1	2	81.0	0.0	0.0	0.0
223.5	3	110.0	0.0	0.0	0.0
22311	2	75.0	0.0	0.0	0.0
224.4	2	77.0	0.0	0.0	0.0
22410	2	83.0	0.0	0.0	0.0
225.3	2	78.0	0.0	0.0	0.0
225.9	2	82.0	0.0	0.0	0.0
226.2	3	113.0	0.0	0.0	0.0
226.7	3	102.0	0.0	0.0	0.0
227.1	2	81.0	0.0	0.0	0.0
227.5	3	110.0	0.0	0.0	0.0
22711	2	75.0	0.0	0.0	0.0
228.4	2	77.0	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)
228.5	3	110.0	0.0	0.0	0.0
22811	2	75.0	0.0	0.0	0.0
22910	2	81.0	0.0	0.0	0.0
230.9	2	82.0	0.0	0.0	0.0
231.7	3	103.0	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)
228.7	3	102.0	0.0	0.0	0.0
229.5	3	110.0	0.0	0.0	0.0
22911	2	75.0	0.0	0.0	0.0
23010	2	83.0	0.0	0.0	0.0
231.9	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)
228.9	2	82.0	0.0	0.0	0.0
229.7	3	102.0	0.0	0.0	0.0
230.5	3	110.0	0.0	0.0	0.0
23011	2	75.0	0.0	0.0	0.0
23110	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)
22810	2	83.0	0.0	0.0	0.0
229.9	2	82.0	0.0	0.0	0.0
230.7	3	103.0	0.0	0.0	0.0
231.5	3	110.0	0.0	0.0	0.0
23111	2	75.0	0.0	0.0	0.0

Residential flat buildings - Building 4, 264 dwellings, 13 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)
4019	2	76.0	0.0	0.0	0.0
4024	2	97.0	0.0	0.0	0.0
4028	1	63.0	0.0	0.0	0.0
4042	2	79.0	0.0	0.0	0.0
4046	1	51.0	0.0	0.0	0.0
4051	1	55.0	0.0	0.0	0.0
4055	1	52.0	0.0	0.0	0.0
4059	2	76.0	0.0	0.0	0.0
4064	1	51.0	0.0	0.0	0.0
4068	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)
4021	2	98.0	0.0	0.0	0.0
4025	2	97.0	0.0	0.0	0.0
4029	2	76.0	0.0	0.0	0.0
4043	1	51.0	0.0	0.0	0.0
4047	2	81.0	0.0	0.0	0.0
4052	2	80.0	0.0	0.0	0.0
4056	1	52.0	0.0	0.0	0.0
4061	1	55.0	0.0	0.0	0.0
4065	1	52.0	0.0	0.0	0.0
4069	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)
4022	3	147.0	0.0	0.0	0.0
4026	2	97.0	0.0	0.0	0.0
4039	2	76.0	0.0	0.0	0.0
4044	1	51.0	0.0	0.0	0.0
4048	1	51.0	0.0	0.0	0.0
4053	1	52.0	0.0	0.0	0.0
4057	2	81.0	0.0	0.0	0.0
4062	2	80.0	0.0	0.0	0.0
4066	1	52.0	0.0	0.0	0.0
4071	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)
4023	2	97.0	0.0	0.0	0.0
4027	2	101.0	0.0	0.0	0.0
4041	1	56.0	0.0	0.0	0.0
4045	1	51.0	0.0	0.0	0.0
4049	2	76.0	0.0	0.0	0.0
4054	1	51.0	0.0	0.0	0.0
4058	1	51.0	0.0	0.0	0.0
4063	1	52.0	0.0	0.0	0.0
4067	2	81.0	0.0	0.0	0.0
4072	2	80.0	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)
4073	1	52.0	0.0	0.0	0.0
4077	2	81.0	0.0	0.0	0.0
4082	2	82.0	0.0	0.0	0.0
4086	1	52.0	0.0	0.0	0.0
4091	1	55.0	0.0	0.0	0.0
4095	1	52.0	0.0	0.0	0.0
4099	2	76.0	0.0	0.0	0.0
4113	3	115.0	0.0	0.0	0.0
4122	2	74.0	0.0	0.0	0.0
4129	1	50.0	0.0	0.0	0.0
4135	1	51.0	0.0	0.0	0.0
4142	2	74.0	0.0	0.0	0.0
4149	1	50.0	0.0	0.0	0.0
4155	1	51.0	0.0	0.0	0.0
4162	2	74.0	0.0	0.0	0.0
4169	1	50.0	0.0	0.0	0.0
4177	3	88.0	0.0	0.0	0.0
4185	2	78.0	0.0	0.0	0.0
4193	2	85.0	0.0	0.0	0.0
4201	1	52.0	0.0	0.0	0.0
4209	1	50.0	0.0	0.0	0.0
4217	3	88.0	0.0	0.0	0.0
4225	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)
4074	1	51.0	0.0	0.0	0.0
4078	1	51.0	0.0	0.0	0.0
4083	1	52.0	0.0	0.0	0.0
4087	2	81.0	0.0	0.0	0.0
4092	2	82.0	0.0	0.0	0.0
4096	1	52.0	0.0	0.0	0.0
4103	3	52.0	0.0	0.0	0.0
4115	3	105.0	0.0	0.0	0.0
4123	1	51.0	0.0	0.0	0.0
4131	1	52.0	0.0	0.0	0.0
4137	2	88.0	0.0	0.0	0.0
4143	1	51.0	0.0	0.0	0.0
4151	1	52.0	0.0	0.0	0.0
4157	2	88.0	0.0	0.0	0.0
4163	1	52.0	0.0	0.0	0.0
4171	1	52.0	0.0	0.0	0.0
4179	1	50.0	0.0	0.0	0.0
4187	3	88.0	0.0	0.0	0.0
4195	2	78.0	0.0	0.0	0.0
4203	2	85.0	0.0	0.0	0.0
4211	1	52.0	0.0	0.0	0.0
4219	1	50.0	0.0	0.0	0.0
4227	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)
4075	1	52.0	0.0	0.0	0.0
4079	2	76.0	0.0	0.0	0.0
4084	1	51.0	0.0	0.0	0.0
4088	1	51.0	0.0	0.0	0.0
4093	1	52.0	0.0	0.0	0.0
4097	2	81.0	0.0	0.0	0.0
4105	1	52.0	0.0	0.0	0.0
4119	1	50.0	0.0	0.0	0.0
4125	1	51.0	0.0	0.0	0.0
4132	2	74.0	0.0	0.0	0.0
4139	1	50.0	0.0	0.0	0.0
4145	1	51.0	0.0	0.0	0.0
4152	2	74.0	0.0	0.0	0.0
4159	1	50.0	0.0	0.0	0.0
4165	1	51.0	0.0	0.0	0.0
4173	2	85.0	0.0	0.0	0.0
4181	1	52.0	0.0	0.0	0.0
4189	1	50.0	0.0	0.0	0.0
4197	3	88.0	0.0	0.0	0.0
4205	2	78.0	0.0	0.0	0.0
4213	2	85.0	0.0	0.0	0.0
4221	1	52.0	0.0	0.0	0.0
4229	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)
4076	1	52.0	0.0	0.0	0.0
4081	1	55.0	0.0	0.0	0.0
4085	1	52.0	0.0	0.0	0.0
4089	2	76.0	0.0	0.0	0.0
4094	1	52.0	0.0	0.0	0.0
4098	1	51.0	0.0	0.0	0.0
4109	2	76.0	0.0	0.0	0.0
4121	1	52.0	0.0	0.0	0.0
4127	2	88.0	0.0	0.0	0.0
4133	1	51.0	0.0	0.0	0.0
4141	1	52.0	0.0	0.0	0.0
4147	2	88.0	0.0	0.0	0.0
4153	1	52.0	0.0	0.0	0.0
4161	1	52.0	0.0	0.0	0.0
4167	2	88.0	0.0	0.0	0.0
4175	2	78.0	0.0	0.0	0.0
4183	2	85.0	0.0	0.0	0.0
4191	1	52.0	0.0	0.0	0.0
4199	1	50.0	0.0	0.0	0.0
4207	3	88.0	0.0	0.0	0.0
4215	2	78.0	0.0	0.0	0.0
4223	2	85.0	0.0	0.0	0.0
4231	1	52.0	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)
4232	2	85.0	0.0	0.0	0.0
40110	2	75.0	0.0	0.0	0.0
40114	2	75.0	0.0	0.0	0.0
40212	2	78.0	0.0	0.0	0.0
40310	2	75.0	0.0	0.0	0.0
40314	2	75.0	0.0	0.0	0.0
40412	2	78.0	0.0	0.0	0.0
40510	2	75.0	0.0	0.0	0.0
40514	2	75.0	0.0	0.0	0.0
40612	2	78.0	0.0	0.0	0.0
40710	2	75.0	0.0	0.0	0.0
40714	2	75.0	0.0	0.0	0.0
40813	1	49.0	0.0	0.0	0.0
40911	1	49.0	0.0	0.0	0.0
410.1	1	55.0	0.0	0.0	0.0
410.7	2	81.0	0.0	0.0	0.0
41013	1	49.0	0.0	0.0	0.0
41111	2	82.0	0.0	0.0	0.0
41210	2	75.0	0.0	0.0	0.0
41215	1	51.0	0.0	0.0	0.0
41314	1	57.0	0.0	0.0	0.0
41413	3	117.0	0.0	0.0	0.0
41511	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)
4235	2	78.0	0.0	0.0	0.0
40111	1	49.0	0.0	0.0	0.0
40115	1	51.0	0.0	0.0	0.0
40213	1	49.0	0.0	0.0	0.0
40311	1	49.0	0.0	0.0	0.0
40315	1	51.0	0.0	0.0	0.0
40413	1	49.0	0.0	0.0	0.0
40511	1	49.0	0.0	0.0	0.0
40515	1	51.0	0.0	0.0	0.0
40613	1	49.0	0.0	0.0	0.0
40711	1	49.0	0.0	0.0	0.0
40715	1	51.0	0.0	0.0	0.0
40814	2	75.0	0.0	0.0	0.0
40913	1	49.0	0.0	0.0	0.0
410.2	2	82.0	0.0	0.0	0.0
410.8	1	81.0	0.0	0.0	0.0
41014	2	75.0	0.0	0.0	0.0
41113	3	117.0	0.0	0.0	0.0
41211	2	82.0	0.0	0.0	0.0
41310	2	75.0	0.0	0.0	0.0
41315	1	51.0	0.0	0.0	0.0
41414	1	57.0	0.0	0.0	0.0
41513	3	117.0	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)
4237	3	88.0	0.0	0.0	0.0
40112	2	75.0	0.0	0.0	0.0
40210	2	75.0	0.0	0.0	0.0
40214	2	75.0	0.0	0.0	0.0
40312	2	78.0	0.0	0.0	0.0
40410	2	75.0	0.0	0.0	0.0
40414	2	75.0	0.0	0.0	0.0
40512	2	78.0	0.0	0.0	0.0
40610	2	75.0	0.0	0.0	0.0
40614	2	75.0	0.0	0.0	0.0
40712	2	78.0	0.0	0.0	0.0
40810	2	75.0	0.0	0.0	0.0
40815	1	51.0	0.0	0.0	0.0
40914	2	75.0	0.0	0.0	0.0
410.4	1	52.0	0.0	0.0	0.0
41010	2	75.0	0.0	0.0	0.0
41015	1	51.0	0.0	0.0	0.0
41114	1	57.0	0.0	0.0	0.0
41213	3	117.0	0.0	0.0	0.0
41311	2	82.0	0.0	0.0	0.0
41410	2	75.0	0.0	0.0	0.0
41415	1	51.0	0.0	0.0	0.0
41514	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)
4239	1	50.0	0.0	0.0	0.0
40113	1	49.0	0.0	0.0	0.0
40211	1	49.0	0.0	0.0	0.0
40215	1	51.0	0.0	0.0	0.0
40313	2	49.0	0.0	0.0	0.0
40411	1	49.0	0.0	0.0	0.0
40415	1	51.0	0.0	0.0	0.0
40513	1	49.0	0.0	0.0	0.0
40611	1	49.0	0.0	0.0	0.0
40615	1	51.0	0.0	0.0	0.0
40713	1	49.0	0.0	0.0	0.0
40811	1	49.0	0.0	0.0	0.0
40910	2	75.0	0.0	0.0	0.0
40915	1	51.0	0.0	0.0	0.0
410.6	1	52.0	0.0	0.0	0.0
41011	1	50.0	0.0	0.0	0.0
41110	2	75.0	0.0	0.0	0.0
41115	1	51.0	0.0	0.0	0.0
41214	1	57.0	0.0	0.0	0.0
41313	3	117.0	0.0	0.0	0.0
41411	2	82.0	0.0	0.0	0.0
41510	2	75.0	0.0	0.0	0.0
41515	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)
41610	2	75.0	0.0	0.0	0.0
41615	1	51.0	0.0	0.0	0.0
41714	1	57.0	0.0	0.0	0.0
41813	3	117.0	0.0	0.0	0.0
41911	2	82.0	0.0	0.0	0.0
42010	2	75.0	0.0	0.0	0.0
42015	1	51.0	0.0	0.0	0.0
42114	1	57.0	0.0	0.0	0.0
42213	3	117.0	0.0	0.0	0.0
42311	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)
41611	2	82.0	0.0	0.0	0.0
41710	2	75.0	0.0	0.0	0.0
41715	1	51.0	0.0	0.0	0.0
41814	1	57.0	0.0	0.0	0.0
41913	3	117.0	0.0	0.0	0.0
42011	2	82.0	0.0	0.0	0.0
42110	2	75.0	0.0	0.0	0.0
42115	1	51.0	0.0	0.0	0.0
42214	1	57.0	0.0	0.0	0.0
42313	3	117.0	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)
41613	3	117.0	0.0	0.0	0.0
41711	2	82.0	0.0	0.0	0.0
41810	2	75.0	0.0	0.0	0.0
41815	1	51.0	0.0	0.0	0.0
41914	1	57.0	0.0	0.0	0.0
42013	3	117.0	0.0	0.0	0.0
42111	2	82.0	0.0	0.0	0.0
42210	2	75.0	0.0	0.0	0.0
42215	1	51.0	0.0	0.0	0.0
42314	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)
41614	1	57.0	0.0	0.0	0.0
41713	3	117.0	0.0	0.0	0.0
41811	2	82.0	0.0	0.0	0.0
41910	2	75.0	0.0	0.0	0.0
41915	1	51.0	0.0	0.0	0.0
42014	1	57.0	0.0	0.0	0.0
42113	3	117.0	0.0	0.0	0.0
42211	2	82.0	0.0	0.0	0.0
42310	2	75.0	0.0	0.0	0.0
42315	1	51.0	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 4

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 4

(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
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)
301.2	26.0	17.0
301.3	40.0	19.0
301.4	53.0	13.0
302.1	47.0	17.0
302.2	17.0	18.0
302.7	38.0	22.0
303.2	20.0	15.0
303.6	55.0	16.0
303.7	35.0	17.0
303.8	50.0	16.0
304.6	55.0	17.0
305.1	45.0	16.0
305.6	56.0	16.0
306.5	56.0	14.0
306.6	57.0	16.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
307.3	48.0	15.0
307.4	60.0	15.0
308.1	49.0	14.0
308.3	51.0	14.0
308.7	38.0	16.0
309.1	63.0	14.0
309.8	60.0	13.0
302.3, 303.3	36.0	19.0
302.4, 309.7	53.0	15.0
302.6, 302.8	59.0	21.0
303.1, 304.1	44.0	16.0
303.4, 303.5	54.0	15.0
304.2, 305.2	21.0	14.0
304.7, 305.7	36.0	16.0
305.3, 306.3	47.0	15.0
306.2, 307.2	22.0	14.0
306.7, 307.7	37.0	16.0
307.6, 308.6	58.0	16.0
307.8, 308.8	53.0	14.0
309.3, 309.6	66.0	14.0
309.4, 309.5	62.0	12.0
302.5, 305.4, 306.4	59.0	15.0
304.3, 306.1, 307.1	46.0	15.0
304.4, 304.5, 305.5	55.0	14.0
304.8, 305.8, 306.8	52.0	15.0
All other dwellings	57.0	14.0

(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	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Lift car (No. 6)	-	-	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): 15
Lift (No. 7)	gearless traction with V V V F motor	Number of levels (including basement): 15

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)
101.1	50.0	27.0
101.2	35.0	22.0
101.5	38.0	19.0
103.1	60.0	23.0
103.3	31.0	20.0
103.6	45.0	31.0
103.7	50.0	32.0
104.1	65.0	19.0
104.2	48.0	15.0
104.3	39.0	14.0
104.4	38.0	13.0
104.5	37.0	14.0
104.6	37.0	22.0
107.1	64.0	18.0
107.4	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)
108.1	65.0	18.0
108.7	57.0	23.0
109.1	66.0	17.0
109.2	45.0	14.0
109.3	46.0	13.0
109.6	40.0	20.0
109.7	57.0	22.0
110.1	66.0	22.0
110.2	53.0	14.0
110.6	48.0	17.0
110.7	60.0	22.0
111.1	63.0	15.0
111.3	47.0	13.0
111.5	48.0	14.0
111.7	53.0	19.0
112.1	61.0	14.0
112.3	58.0	13.0
112.5	57.0	12.0
112.7	51.0	15.0
101.3, 101.4	31.0	18.0
103.4, 103.5	30.0	20.0
104.7, 105.7	55.0	25.0
105.1, 106.1	66.0	19.0
105.2, 106.2	43.0	14.0
105.5, 106.5	38.0	14.0
105.6, 106.6	38.0	22.0
106.7, 107.7	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)
107.2, 108.2	44.0	14.0
103.2, 107.6, 108.6	39.0	21.0
105.3, 106.3, 109.5	40.0	13.0
110.3, 110.4, 110.5	51.0	11.0
105.4, 106.4, 107.5, 108.5	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/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
201.1	40.0	39.0
201.2	44.0	51.0
201.3	38.0	19.0
201.4	58.0	36.0
201.8	26.0	14.0
201.9	49.0	31.0
20110	39.0	43.0
20111	46.0	16.0
202.1	42.0	35.0
202.2	46.0	49.0
202.3	26.0	16.0
202.4	58.0	34.0
202.6	39.0	31.0
202.8	30.0	11.0
202.9	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
203.1	47.0	26.0
203.2	51.0	36.0
203.3	32.0	16.0
203.4	62.0	25.0
203.5	43.0	16.0
203.6	40.0	15.0
203.8	31.0	11.0
203.9	51.0	30.0
20310	46.0	35.0
204.1	48.0	26.0
204.4	63.0	24.0
204.8	32.0	11.0
204.9	52.0	29.0
20410	47.0	35.0
205.1	49.0	26.0
205.9	53.0	28.0
20510	47.0	34.0
206.3	30.0	15.0
206.5	57.0	15.0
20610	47.0	33.0
207.3	30.0	16.0
207.4	57.0	21.0
207.5	56.0	15.0
207.6	35.0	16.0
207.8	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
208.3	29.0	16.0
208.6	34.0	16.0
208.8	28.0	10.0
208.9	52.0	27.0
20810	49.0	33.0
209.1	51.0	24.0
209.2	54.0	34.0
209.3	28.0	16.0
209.6	33.0	15.0
209.8	27.0	10.0
20910	49.0	32.0
20911	56.0	10.0
210.2	57.0	29.0
210.3	30.0	14.0
210.8	31.0	10.0
21010	62.0	30.0
21011	62.0	9.0
211.3	33.0	12.0
211.5	55.0	13.0
211.8	63.0	15.0
21110	58.0	13.0
212.2	63.0	40.0
212.3	50.0	17.0
212.9	45.0	19.0
21210	60.0	30.0
21211	57.0	9.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
213.2	66.0	38.0
213.4	43.0	13.0
213.6	46.0	18.0
213.9	43.0	19.0
21310	50.0	27.0
214.2	56.0	38.0
214.4	44.0	13.0
215.2	62.0	44.0
216.2	62.0	35.0
216.9	43.0	18.0
21610	51.0	26.0
217.5	56.0	13.0
217.9	44.0	19.0
218.6	47.0	17.0
218.7	51.0	11.0
219.3	62.0	17.0
219.5	57.0	14.0
220.4	43.0	12.0
221.3	53.0	18.0
222.5	60.0	13.0
22210	52.0	25.0
223.7	39.0	14.0
224.7	38.0	11.0
225.1	47.0	19.0
225.5	46.0	19.0
227.3	54.0	17.0
228.1	59.0	17.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
228.2	60.0	28.0
228.3	64.0	16.0
228.4	55.0	10.0
229.9	48.0	18.0
231.5	63.0	13.0
231.9	60.0	17.0
23110	65.0	24.0
23111	65.0	8.0
202.5, 210.9	57.0	20.0
204.2, 205.2	51.0	37.0
204.3, 205.3	32.0	15.0
204.5, 205.5	59.0	16.0
204.6, 211.2	50.0	30.0
20411, 222.7	53.0	12.0
205.4, 206.4	56.0	22.0
205.6, 206.6	38.0	15.0
205.8, 206.8	32.0	10.0
206.1, 209.9	49.0	25.0
206.9, 207.9	53.0	27.0
207.1, 208.1	50.0	25.0
20711, 20811	55.0	11.0
208.5, 209.5	54.0	15.0
213.3, 214.3	51.0	18.0
218.1, 222.1	56.0	19.0
221.8, 222.8	44.0	11.0
222.6, 230.9	48.0	17.0
223.5, 224.5	39.0	12.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
22810, 22910	53.0	26.0
20511, 20611, 231.7	54.0	11.0
206.2, 207.2, 208.2	54.0	35.0
210.1, 211.1, 212.1	54.0	20.0
210.6, 211.6, 212.4	35.0	13.0
21410, 21510, 21710	51.0	27.0
21511, 21611, 21811	59.0	10.0
217.2, 218.2, 219.2	62.0	34.0
218.5, 220.5, 221.5	57.0	13.0
225.2, 226.2, 227.2	64.0	34.0
22811, 22911, 23011	61.0	9.0
208.4, 209.4, 210.4, 211.4	56.0	21.0
212.6, 219.6, 220.6, 221.6	45.0	17.0
213.1, 214.1, 215.1, 216.1	55.0	20.0
213.7, 214.7, 215.7, 216.7	49.0	11.0
214.6, 215.6, 216.6, 217.6	46.0	17.0
215.3, 216.3, 217.3, 218.3	52.0	17.0
217.1, 219.1, 220.1, 221.1	56.0	20.0
217.7, 219.7, 220.7, 221.7	50.0	11.0
21810, 21910, 22010, 22110	52.0	26.0
223.1, 224.1, 226.1, 227.1	57.0	19.0
212.7, 212.8, 213.8, 214.8, 215.8	42.0	11.0
21311, 21411, 21711, 21911, 22011	59.0	9.0
215.4, 216.4, 217.4, 218.4, 219.4	44.0	12.0
216.8, 217.8, 218.8, 219.8, 220.8	43.0	11.0
220.2, 221.2, 222.2, 223.2, 224.2	63.0	34.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
224.9, 225.9, 226.9, 227.9, 228.9	45.0	18.0
20311, 226.5, 227.5, 228.5, 229.5, 230.5	52.0	12.0
210.5, 212.5, 213.5, 214.5, 215.5, 216.5	56.0	14.0
220.3, 222.3, 223.3, 224.3, 225.3, 226.3	53.0	17.0
22310, 22410, 22510, 22610, 22710, 23010	53.0	25.0
225.7, 226.7, 227.7, 228.7, 229.7, 230.7	39.0	11.0
221.4, 222.4, 223.4, 224.4, 225.4, 226.4, 227.4	45.0	12.0
22111, 22211, 22311, 22411, 22511, 22611, 22711	60.0	9.0
All other dwellings	44.0	18.0

(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): 35
Lift (No. 4)	gearless traction with V V V F motor	Number of levels (including basement): 35
Lift (No. 5)	gearless traction with V V V F motor	Number of levels (including basement): 32

4. Commitments for Residential flat buildings - Building 4

(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)
4019	34.0	28.0
4021	64.0	18.0
4022	56.0	46.0
4023	22.0	21.0
4027	27.0	25.0
4028	65.0	23.0
4029	31.0	29.0
4039	35.0	22.0
4042	28.0	11.0
4047	40.0	21.0
4049	35.0	21.0
4051	57.0	18.0
4052	29.0	11.0
4058	56.0	19.0
4059	36.0	21.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
4063	33.0	10.0
4072	30.0	10.0
4081	59.0	18.0
4092	31.0	10.0
4097	45.0	20.0
4103	37.0	10.0
4113	63.0	18.0
4125	54.0	10.0
4127	51.0	15.0
4173	59.0	15.0
4175	55.0	12.0
4231	64.0	20.0
4235	66.0	11.0
4237	57.0	16.0
4239	48.0	17.0
40110	34.0	25.0
40114	40.0	19.0
40115	61.0	24.0
40210	31.0	20.0
40211	55.0	29.0
40212	17.0	23.0
40213	55.0	24.0
40214	46.0	20.0
40215	57.0	24.0
40310	35.0	20.0
40311	56.0	28.0
40312	17.0	22.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
40313	62.0	18.0
40314	47.0	19.0
40411	57.0	27.0
40412	21.0	20.0
40413	63.0	17.0
40511	53.0	23.0
40512	21.0	19.0
40515	59.0	17.0
40610	37.0	19.0
40611	54.0	23.0
40612	19.0	19.0
40613	65.0	17.0
40614	52.0	13.0
40615	60.0	16.0
40711	50.0	22.0
40712	19.0	18.0
40713	65.0	16.0
40811	59.0	21.0
40813	55.0	15.0
40911	55.0	22.0
40913	53.0	15.0
40914	53.0	12.0
410.2	41.0	10.0
410.6	35.0	10.0
410.7	44.0	19.0
410.8	66.0	19.0
41010	42.0	16.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
41011	61.0	21.0
41014	59.0	10.0
41015	64.0	13.0
41114	58.0	12.0
41814	60.0	44.0
41913	65.0	21.0
42113	65.0	19.0
42310	49.0	12.0
42311	62.0	20.0
42314	65.0	11.0
42315	63.0	11.0
4048, 4115	55.0	20.0
4053, 4105	32.0	10.0
4057, 4067	42.0	20.0
4068, 4078	57.0	19.0
4073, 4083	34.0	10.0
4077, 4087	43.0	19.0
4079, 4089	37.0	20.0
4099, 4109	38.0	20.0
4123, 4163	56.0	10.0
4131, 4141	64.0	22.0
4135, 4145	50.0	10.0
4137, 4147	47.0	16.0
4143, 4153	52.0	10.0
4157, 4167	48.0	15.0
4201, 4221	66.0	21.0
4082, 410.4	38.0	10.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
4149, 40510	36.0	19.0
4162, 40513	64.0	17.0
4229, 40910	38.0	18.0
4232, 41013	58.0	14.0
40111, 40113	59.0	25.0
40112, 40410	35.0	19.0
40315, 40415	58.0	17.0
40414, 40514	51.0	13.0
40714, 40814	53.0	13.0
410.1, 42313	66.0	17.0
41213, 41313	63.0	21.0
41214, 41314	59.0	12.0
41414, 41514	59.0	11.0
42013, 42213	65.0	20.0
42114, 42214	61.0	11.0
4024, 4025, 4026	22.0	22.0
4041, 4088, 4098	57.0	20.0
4061, 4071, 4091	58.0	18.0
4132, 4142, 4152	38.0	13.0
4133, 4155, 4165	51.0	10.0
4121, 4191, 41113	66.0	22.0
40715, 40815, 40915	61.0	16.0
41111, 41211, 41311	58.0	27.0
41411, 41511, 41611	59.0	27.0
41711, 41811, 41911	60.0	27.0
42011, 42111, 42211	60.0	26.0
4043, 4044, 4045, 4046	23.0	11.0

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m ² /yr)	Area adjusted cooling load (in mJ/m ² /yr)
4054, 4055, 4056, 4065	27.0	10.0
4069, 4119, 4129, 4139	36.0	20.0
4151, 4161, 4171, 4181	65.0	22.0
41614, 41714, 41914, 42014	60.0	11.0
4183, 4193, 4203, 4213, 4223	60.0	15.0
4185, 4195, 4205, 4215, 4225	56.0	12.0
41110, 41210, 41310, 41410, 41510	40.0	13.0
41413, 41513, 41613, 41713, 41813	64.0	21.0
4064, 4066, 4074, 4075, 4076, 4085	28.0	10.0
4177, 4187, 4197, 4207, 4217, 4227	47.0	17.0
4062, 4084, 4086, 4093, 4094, 4095, 4096	29.0	10.0
41115, 41215, 41315, 41715, 42115, 42215	65.0	12.0
4211, 41415, 41515, 41615, 41815, 41915, 42015	66.0	12.0
4122, 41610, 41710, 41810, 41910, 42010, 42110, 42210	41.0	13.0
All other dwellings	37.0	18.0

(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): 28
Lift (No. 9)	gearless traction with V V V F motor	Number of levels (including basement): 28
Lift (No. 10)	gearless traction with V V V F motor	Number of levels (including basement): 15

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).