



				Site 3 - Australia Towers II Sydney Olympic Park	Sole 1:100@A0 Deven Checked	Melbourne 1 Notokson Street Melbourne VIC 3000 Australia T C3 9954 6300 F C3 8554 5100 F C2 8354 51
	Note: • Commentatives revised • Stats revised			Plan Level 01	Project No. S11202 Billion S75W	http://www.betesemert.com.au http://www.betesemert.com.au Bates Smart Architects Pty Ltd ABN 66 (04 740 966
					Rol Date 1/7/2014 4:30:26 PM Rol Pie \$\1500-1129\$\cite\$ horebush\dl_nab\	
63.20		2 01.07.14 Submission for \$75W EC 1 27.05.14 Submission for \$75W EC		Constrained provide an and percomplement per la transmission metal of any series, the produces or weight of any metal that the transport that is and any or requirement and the properties of the optimal percent to the addition of the percent percent for the percent percent for percent percent percent percent percent percent percent p		BATESSMAR
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30.06.14 27.06.14 19.06.14 17.06.14

For all Tower C Wall Type, refer to Wall Schedule For all Tower C Window Type, refer to Window Schedule For all Adaptable Units, refer to drawings For all Variation Directions, refer to drawings A28.001, A28.002, A28.003 A22.001, A22.002 A15.18x

A60.xxx

Notes: • Additional apartment units - C25.08 and C25.09



Site 3 - Australia Towers II Scale 1:100 @ B1 Destar Sydney Olympic Park TJM Project no. S11202 GA Plan - C - Level 24 Status JT JT JT TJM JT EM JTTJN TM TJM $\mathbf{\nabla}$ Plot Date Divi Eže Check all dimension materials, fittings, pl any components. Do not scale drawings - refer to the architect for clarification. A03-124 24



Bates Smart Pty Ltd ABN 70 004 999 400





Tower D - Roof 02



NOT FOR CONSTRUCTION

B1 Checked Checker	Sydney 43 Brisbane Street Surry Hills NSW 2010 Australia T 02 8345 5100 F 02 835 5199 email syd®batessmart.com.au http://www.batessmart.com.au Bates Smart Pty Ltd ABN 70 004 9	Melbourne 1 Nicholson Street Melbourne VIC 3000 Australia T 03 864 6300 F 03 864 6300 email mell@batessmart.com.au http://www.batessmart.com.au
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Scale

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Status DA Plot Date



Check all dimen materials, fitting Do not scale drawings - refer to figured o the architect for clarification.

Tower D - Roof Views

Site 3 - Australia Towers II Sydney Olympic Park

Plot File

Disaving no. SK-363

Author Project no. S11202

2



1 Tower D Lift Motor Room Section1



NOT FOR CONSTRUCTION

1 : 100	@ B1	Sydney 43 Brisbane Street Suny Hills NSW 2010 Australia T 02 8354 5100 F 02 8354 5199	Melbourne 1 Nicholson Street Melbourne VIC 3000 Australia
Author	Checked	email syd@batessmart.com.au http://www.batessmart.com.au	T 03 8664 6200 F 03 8664 6300 email mel@batessmart.com.au http://www.batessmart.com.au
S11202		Bates Smart Pty Ltd ABN 70 004 9	99.400
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362	2	BATES	SMART





Check all dimensions and site conditions prior to commencement of any work, the purchase or ordering of any materials, things, part, survices or equipment and the preparation of shop drawings and or the labitication of any components. Do not scale drawings - wher to figured dimensions only. Any discrepancies shall immediately be referred to the authbact for clarification. r distributed without prior permission from the architect. All drawings may not be reprodu

Site 3 - Australia Towers II

Sydney Olympic Park

Tower D - Roof Sections

Status DA
Plot Date 27/06/2014
Plot File c1/sempl.Sta Drawing no. SK-362

Scale

Dnawn

Status

Project no.







For all Tower C Wall Type, refer to Wall Schedule For all Tower C Window Type, refer to Window Schedule For all Adaptable Units, refer to drawings For all Variation Directions, refer to drawings

Notes:

Drop panel over indicated - Level 24 slab
 Lobby relief penetration over shown



Rating Certificatio Number 147300000 pg <u>55 and 155 </u>	Contract Nutrity 1:0720135 Contract Nutrity 1:072013 Contract Nutrity 1:0720135 Contract Nutrity 1:072015 Contract Nutrity 1:07201 Contract Nutrity 1:07201 C

NOT FOR CONSTRUCTION

Site 3 - Australia Towers II

Sydney Olympic Park

GA Plan - C - Level 23

Check all dimensio materials, fittings, p any components.

Do not scale drawings - refer the architect for clarification.

JT TJM JT EM JT/TJM TM TJM TJM TJM JT TR

Destar

Status

Draw

 $\mathbf{\nabla}$

Project no. S11202

Plot Date Divi Eže TJM

A03-123











Efficient Living Pty Ltd ABN: 82 116 346 082 ACN: 116 346 082

13/13 Lagoon St, NARRABEEN NSW 2101

Parkview Group

DA Application for:

Australia Towers II – Tower C

To be built at:

1-7 Australia Avenue, Sydney Olympic Park, NSW 2127

BASIX Assessment

Issue No.	Description	Author	Date
No. 01	Assessment & certification	TC/TMC	07/06/13
	Note this report replaces the original Basix and ABSA thermal		
	simulation completed by Windtec		
No. 02	Updated thermal comfort scores	TC/TMC	10/07/13
No. 03	Low-e glazing removed	TC/TMC	17/07/13
No. 04	Traditional sliding windows and door changed to double glazing	TC/TMC	05/09/13
No. 05	Additional units added	MF	22/07/14



This report has been prepared by Efficient Living Pty Ltd on behalf of our client Parkview Group. Efficient Living prepares all reports in accordance with Basix thermal comfort protocol and is backed by professional indemnity insurance. This report takes into account our client's instructions and preferred building inclusions.

P. 9970 6181

F.



PREPARED FOR :	PREPARED BY :
Parkview Construction Pty Ltd Suite 3, 2 Wentworth Park Rd GLEBE NSW 2037	Efficient Living 13/13 Lagoon St, Narrabeen NSW, 2101
Contact : Phone : (02) 9506 1500 Fax : (02) 9506 1599	Email: tracey@efficientliving.com.au Phone : (02) 9970 6181 Fax : (02) 9970 6181

COVER SHEET	
TABLE OF COM	NTENTS
ANALYSIS	
WATER USAGE	E
THERMAL COM	IFORT
ENERGY USAG	6E
INCLUSIONS	
THERMAL CON	IFORT RESULTS
BERS ASSESS	OR CERTIFICATE
	SPECIFICATION used in this table, refer to inclusions curate specification)

BASIX CERTIFICATE



INTRODUCTION

Efficient Living has investigated the estimated thermal comfort of the proposed development to be built at 1-7 Australia Avenue, 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 Parkview Group. For further details, refer to the inclusions summary and thermal comfort results.

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% for 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 weather 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 (mega joules) 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 and the cook top, oven, and clothes drying facilities.



BASIX Inclusions – Australia Tower C

Australia Tower C has reached the targets as set for new dwellings in NSW.

The inclusions as outlined in the table below have been incorporated in each unit to allow them to reach their

environmental sustainability targets.

Construction genera	1						
Glazing	Curtain walls:						
	Fixed pane with three awning panels (vision panel 3007): U-value 4.7 & SHGC 0.52						
	Large fixed panel (vision panel 3005): U-value 3.7 & SHGC 0.61						
	Small fixed panel (vision panel 3200): U-value 4.5 & SHGC 0.56						
	Traditional sliding windows and doors:						
	U-value 4.81 & SHGC 0.41						
Roof / ceiling	Roof: Concrete slab – medium colour						
insulation							
	Plasterboard ceiling – R2.0 insulation to top floor units and						
	R2.0 to those areas with exposed balcony over.						
	No insulation to other units						
Wall / floor insulation	External Wall: Spandrel panel – R1.7 total construction						
	Small sections of 250mm Hebel, un-insulated as per plans						
	Internal walls within units: Plasterboard on studs - no insulation						
	Inter-tenancy walls: 250mm hebel - no insulation						
	Floor: Concrete – R1.0 insulation to subfloor unit C24.09						
	No insulation to other units						
BASIX Water inclusi	ons – Score 48/40						
Fixtures	Showerheads: 3 star (>7.5 but <=9.0 L/min) High flow						
(within units)	Toilets: 3 star						
	Kitchen taps: 3 star						
	Bathroom taps: 3 star						
Common area	Showerheads: 3 star (>7.5 but <=9.0 L/min) High flow						
fixtures	Toilets: 3 star						
	Bathroom taps: 3 star						
Appliances	Dishwashers: 2 Star						
(within units)							
Reticulated	Connected to: Irrigation of landscaping & all toilets						
alternative water							
supply							



BASIX Energy inclus	sions – Score Pass 21/20
Central hot water	Central gas-fired boiler with R1.0 (~38mm) insulation to ringmain and supply risers
system	
Lift motors	All lifts to have gearless traction with VVVF motor.
Appliances & other	Gas cooktop & electric oven
efficiency measures	Dishwashers: 2.5 star
(within units)	Clothes dryer: 2.0 star
Heating & cooling	All units to have individual single phase reverse cycle air conditioning:
(within units)	Heating: 1 Phase air-conditioning – 2.5 Stars (new rating)
	Cooling: 1 Phase air-conditioning – 2.5 Stars (new rating)
Artificial lighting	Fluorescent or LED lighting, to be provided throughout
(within units)	
Ventilation systems	Bathroom ventilation: Individual fan, ducted to roof or façade – interlocked to light
(within units)	Laundry ventilation: Individual fan, ducted to roof or façade – interlocked to light
	Kitchen ventilation: Individual fan, recirculating – manual switch on/off
Artificial lighting	Car park area: fluorescent – zoned switching with motion sensor
(within common	Lifts: compact fluorescent – connected to lift call button
areas)	Storage: fluorescent – manual on / manual off
	Switch room: fluorescent – manual on / manual off
	Garbage rooms: fluorescent – motion sensors
	Fan room: fluorescent – manual on / manual off
	Plant room: fluorescent – manual on / manual off
	Mail room: compact fluorescent - manual on / manual off
	Ground floor lobbies: compact fluorescent – zoned switching with motion sensor
	Hallways: compact fluorescent – zoned switching with motion sensor
Ventilation systems	Car park area: Supply air only to the top 2.5 levels of car park. Supply and exhaust air
(within common	to the rest of the car park areas - carbon monoxide monitor + VSD fan
areas)	Storage: ventilation supply only – interlocked to light
	Switch room: no mechanical ventilation
	Garbage rooms: ventilation exhaust only – no efficiency measures
	Fan room: no mechanical ventilation
	Plant room: no mechanical ventilation
	Mail room: ventilation supply only – continuous
	Ground floor lobbies: ventilation supply only – continuous
	Hallways: ventilation supply only – continuous



Parkview Group



Issued in accordance with BASIX Thermal Comfort Simulation Method

Certifica	te # 1473013	35			Issued	: 22/07/20	014 Ao	ccreditatior	# VIC/BDAV/12/1473
			Thermal	perform	ance spec	ifications	\$		Page 1 of 9
Unit number	Number of Bedrooms	Floor a	or area (M ²)		Predict. loads (MJ/M²/y)		Window in	Window	Thermal Comfort Upgrades
number	Beurooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
02.01	2	100	0	33	22	5.5	0	0	None
02.02	4	133	0	18	12	7.5	0	0	None
02.03	2	79	5	27	13	6.5	1	0	None
02.04	2	89	0	24	11	7.0	0	0	None
02.05	2	83	0	25	14	6.5	0	0	None
02.06	2	78	0	48	20	4.5	0	0	None
02.07	2	64	0	58	17	4.0	0	0	None
02.08	2	83	0	55	21	4.0	0	0	None
03.01	2	100	0	31	22	5.5	0	0	None
03.02	4	133	0	16	12	7.5	0	0	None
03.03	2	79	5	15	14	7.5	1	0	None
03.04	1	51	9	27	30	5.5	1	0	None
03.05	1	59	0	39	25	5.0	0	0	None
03.06	1	53	0	38	26	5.0	0	0	None
03.07	1	49	0	36	17	5.5	0	0	None
03.08	2	81	0	43	15	5.0	0	1	None
03.09	1	58	0	56	15	4.5	0	0	None
03.10	2	79	5	64	12	4.0	1	0	None
03.11	2	73	0	45	12	5.5	0	0	None
03.12	2	80	0	40	12	5.5	0	0	None
03.13	2	83	0	52	20	4.5	0	0	None
04.01	2	100	0	34	16	6.0	0	0	None
04.02	4	133	0	18	10	7.5	0	0	None
04.03	2	79	5	17	11	7.5	1	0	None
04.04	1	51	9	24	24	6.0	1	0	None
04.05	1	59	0	16	23	6.5	0	0	None
04.06	1	53	0	19	25	6.5	0	0	None
04.07	1	49	0	20	15	7.5	0	0	None
04.08	2	81	0	37	13	6.0	0	1	None
04.09	1	58	0	42	12	5.5	0	0	None
04.10	2	79	5	33	11	6.5	1	0	None
04.11	2	73	0	49	9	5.0	0	0	None
04.12	2	80	0	28	10	7.0	0	0	None
04.13	2	83	0	56	16	4.5	0	0	None



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Certifica	te # 1473013	35			Issued	: 22/07/20)14 Ao	ccreditation	# VIC/BDAV/12/1473
			Thermal p	perform	ance spec	ifications	Page 2 of 9		
Unit Number		Floor a	area (M ²)	Predict. loads (MJ/M²/y)		Star Rating	Window in	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Katiliy	Bathroom	Kitchen	
05.01	2	100	0	34	16	6.0	0	0	None
05.02	4	133	0	18	10	7.5	0	0	None
05.03	2	79	5	17	11	7.5	1	0	None
05.04	1	51	9	25	23	6.0	1	0	None
05.05	1	59	0	17	20	7.0	0	0	None
05.06	1	53	0	20	22	6.5	0	0	None
05.07	1	49	0	20	15	7.5	0	0	None
05.08	2	81	0	37	13	6.0	0	1	None
05.09	1	58	0	42	12	5.5	0	0	None
05.10	2	79	5	33	11	6.5	1	0	None
05.11	2	73	0	49	9	5.0	0	0	None
05.12	2	80	0	28	10	7.0	0	0	None
05.13	2	83	0	56	16	4.5	0	0	None
06.01	2	100	0	34	16	6.0	0	0	None
06.02	4	133	0	18	10	7.5	0	0	None
06.03	2	79	5	17	11	7.5	1	0	None
06.04	1	51	9	25	23	6.0	1	0	None
06.05	1	59	0	17	20	7.0	0	0	None
06.06	1	53	0	20	22	6.5	0	0	None
06.07	1	49	0	20	15	7.5	0	0	None
06.08	2	81	0	37	13	6.0	0	1	None
06.09	1	58	0	42	12	5.5	0	0	None
06.10	2	79	5	33	11	6.5	1	0	None
06.11	2	73	0	49	9	5.0	0	0	None
06.12	2	80	0	28	10	7.0	0	0	None
06.13	2	83	0	56	16	4.5	0	0	None
07.01	2	100	0	34	16	6.0	0	0	None
07.02	4	133	0	18	10	7.5	0	0	None
07.03	2	79	5	17	11	7.5	1	0	None
07.04	1	51	9	25	23	6.0	1	0	None
07.05	1	59	0	17	20	7.0	0	0	None
07.06	1	53	0	20	22	6.5	0	0	None
07.07	1	49	0	20	15	7.5	0	0	None



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			Thermal p	perform	ance spec	ifications			Page 3 of 9
Unit number	Number of Bedrooms	Floor a	area (M ²)		ct. loads J/M²/y)	Star Rating	Window in	Window in	Thermal Comfort Upgrades
number	Bearbonns	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
07.08	2	81	0	37	13	6.0	0	1	None
07.09	1	58	0	42	12	5.5	0	0	None
07.10	2	79	5	33	11	6.5	1	0	None
07.11	2	73	0	49	9	5.0	0	0	None
07.12	2	80	0	28	10	7.0	0	0	None
07.13	2	83	0	56	16	4.5	0	0	None
08.01	2	100	0	34	16	6.0	0	0	None
08.02	4	133	0	18	10	7.5	0	0	None
08.03	2	79	5	17	11	7.5	1	0	None
08.04	1	51	9	25	23	6.0	1	0	None
08.05	1	59	0	17	20	7.0	0	0	None
08.06	1	53	0	20	22	6.5	0	0	None
08.07	1	49	0	20	15	7.5	0	0	None
08.08	2	81	0	37	13	6.0	0	1	None
08.09	1	58	0	42	12	5.5	0	0	None
08.10	2	79	5	33	11	6.5	1	0	None
08.11	2	73	0	49	9	5.0	0	0	None
08.12	2	80	0	28	10	7.0	0	0	None
08.13	2	83	0	56	16	4.5	0	0	None
09.01	2	100	0	34	15	6.0	0	0	None
09.02	4	133	0	18	10	7.5	0	0	None
09.03	2	79	5	17	11	7.5	1	0	None
09.04	1	51	9	25	23	6.0	1	0	None
09.05	1	59	0	17	20	7.0	0	0	None
09.06	1	53	0	20	22	6.5	0	0	None
09.07	1	49	0	21	14	7.0	0	0	None
09.08	2	81	0	38	12	6.0	0	1	None
09.09	1	58	0	44	11	5.5	0	0	None
09.10	2	79	5	35	11	6.0	1	0	None
09.11	2	73	0	51	9	5.0	0	0	None
09.12	2	80	0	29	10	7.0	0	0	None
09.13	2	83	0	57	16	4.5	0	0	None
10.01	2	100	0	34	15	6.0	0	0	None
10.02	4	133	0	18	10	7.5	0	0	None
10.03	2	79	5	17	11	7.5	1	0	None



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Certifica	te # 1473013	35			Issued	: 22/07/20)14 A	ccreditation	# VIC/BDAV/12/1473
			Thermal J	perform	ance spec	ifications	\$		Page 4 of 9
Unit	Number of	Floor a	area (M ²)	Predict. loads (MJ/M ² /y)		Star	Window	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
10.04	1	51	9	26	21	6.0	1	0	None
10.05	1	59	0	18	19	7.0	0	0	None
10.06	1	53	0	21	21	6.5	0	0	None
10.07	1	49	0	21	14	7.0	0	0	None
10.08	2	81	0	38	12	6.0	0	1	None
10.09	1	58	0	44	11	5.5	0	0	None
10.10	2	79	5	35	11	6.0	1	0	None
10.11	2	73	0	51	9	5.0	0	0	None
10.12	2	80	0	29	10	7.0	0	0	None
10.13	2	83	0	57	16	4.5	0	0	None
11.01	2	100	0	34	15	6.0	0	0	None
11.02	4	133	0	18	10	7.5	0	0	None
11.03	2	79	5	17	11	7.5	1	0	None
11.04	1	51	9	26	21	6.0	1	0	None
11.05	1	59	0	18	19	7.0	0	0	None
11.06	1	53	0	21	21	6.5	0	0	None
11.07	1	49	0	21	14	7.0	0	0	None
11.08	2	81	0	38	12	6.0	0	1	None
11.09	1	58	0	44	11	5.5	0	0	None
11.10	2	79	5	35	11	6.0	1	0	None
11.11	2	73	0	51	9	5.0	0	0	None
11.12	2	80	0	29	10	7.0	0	0	None
11.13	2	83	0	57	16	4.5	0	0	None
12.01	2	100	0	42	15	5.5	0	0	None
12.02	4	133	0	23	10	7.0	0	0	None
12.03	2	79	5	19	11	7.5	1	0	None
12.04	1	51	9	26	21	6.0	1	0	None
12.05	1	59	0	18	19	7.0	0	0	None
12.06	1	53	0	21	21	6.5	0	0	None
12.07	1	49	0	21	14	7.0	0	0	None
12.08	2	81	0	38	12	6.0	0	1	None
12.09	1	58	0	44	11	5.5	0	0	None
12.10	2	79	5	35	11	6.0	1	0	None
12.11	2	73	0	51	9	5.0	0	0	None
12.12	2	80	0	29	10	7.0	0	0	None



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Certifica	ite # 1473013	35			Issued	: 22/07/20	014 A	ccreditatior	1# VIC/BDAV/12/1473
			Thermal p	perform	ance spec	ifications	5	_	Page 5 of 9
Unit	Number of	Floor a	area (M ²)	Predict. loads (MJ/M ² /y)		Star	Window	Window	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	10
12.13	2	83	0	60	16	4.0	0	0	None
13.01	3	123	0	21	22	6.5	0	0	None
13.02	1	68	0	15	9	8.0	0	0	None
13.03	2	72	5	18	9	7.5	1	0	None
13.04	1	51	9	26	21	6.0	1	0	None
13.05	1	59	0	18	19	7.0	0	0	None
13.06	1	53	0	21	21	6.5	0	0	None
13.07	1	49	0	24	14	7.0	0	0	None
13.08	3	81	0	35	12	6.0	0	1	None
13.09	2	79	5	35	11	6.0	1	0	None
13.10	2	73	0	51	9	5.0	0	0	None
13.11	2	80	0	29	10	7.0	0	0	None
14.01	1	65	0	47	24	4.5	0	1	None
14.02	1	68	0	15	9	8.0	0	0	None
14.03	2	72	5	18	9	7.5	1	0	None
14.04	1	51	9	26	21	6.0	1	0	None
14.05	1	59	0	18	19	7.0	0	0	None
14.06	1	53	0	21	21	6.5	0	0	None
14.07	3	100	0	32	14	6.0	0	0	None
14.08	2	86	0	50	13	5.0	0	0	None
14.09	2	79	5	38	10	6.0	1	0	None
14.10	2	73	0	52	9	5.0	0	0	None
14.11	2	80	0	30	10	6.5	0	0	None
14.12	1	51	0	46	15	5.0	0	0	None
15.01	1	65	0	39	24	5.0	0	1	None
15.02	1	68	0	15	9	8.0	0	0	None
15.03	2	72	5	18	9	7.5	1	0	None
15.04	1	51	9	27	20	6.0	1	0	None
15.05	1	59	0	18	18	7.0	0	0	None
15.06	1	53	0	22	20	6.5	0	0	None
15.07	3	100	0	27	13	6.5	0	0	None
15.08	2	86	0	40	14	5.5	0	0	None
15.09	2	79	5	38	10	6.0	1	0	None
15.10	2	73	0	52	9	5.0	0	0	None
15.11	2	80	0	30	10	6.5	0	0	None



Parkview Group



Issued in accordance with BASIX Thermal Comfort Simulation Method

Certifica	te # 1473013	35			Issued	: 22/07/20)14 A	ccreditatior	# VIC/BDAV/12/1473
			Thermal p	perform	ance spec	ifications	3		Page 6 of 9
Unit	Number of	Floor a	area (M ²)		ct. loads J/M²/y)	Star	Window	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
15.12	1	51	0	25	15	6.5	0	0	None
16.01	1	65	0	39	24	5.0	0	1	None
16.02	1	68	0	15	9	8.0	0	0	None
16.03	2	72	5	18	9	7.5	1	0	None
16.04	1	51	9	27	20	6.0	1	0	None
16.05	1	59	0	18	18	7.0	0	0	None
16.06	1	53	0	22	20	6.5	0	0	None
16.07	3	100	0	27	13	6.5	0	0	None
16.08	2	86	0	40	14	5.5	0	0	None
16.09	2	79	5	38	10	6.0	1	0	None
16.10	2	73	0	52	9	5.0	0	0	None
16.11	2	80	0	30	10	6.5	0	0	None
16.12	1	51	0	25	15	6.5	0	0	None
17.01	1	65	0	39	24	5.0	0	1	None
17.02	1	68	0	15	9	8.0	0	0	None
17.03	2	72	5	18	9	7.5	1	0	None
17.04	1	51	9	27	20	6.0	1	0	None
17.05	1	59	0	18	18	7.0	0	0	None
17.06	1	53	0	22	20	6.5	0	0	None
17.07	3	100	0	27	13	6.5	0	0	None
17.08	2	86	0	40	14	5.5	0	0	None
17.09	2	79	5	38	10	6.0	1	0	None
17.10	2	73	0	52	9	5.0	0	0	None
17.11	2	80	0	30	10	6.5	0	0	None
17.12	1	51	0	25	15	6.5	0	0	None
18.01	1	65	0	39	24	5.0	0	1	None
18.02	1	68	0	15	9	8.0	0	0	None
18.03	2	72	5	18	9	7.5	1	0	None
18.04	1	51	9	27	20	6.0	1	0	None
18.05	1	59	0	18	18	7.0	0	0	None
18.06	1	53	0	22	20	6.5	0	0	None
18.07	3	100	0	27	13	6.5	0	0	None
18.08	2	86	0	40	14	5.5	0	0	None
18.09	2	79	5	38	10	6.0	1	0	None
18.10	2	73	0	52	9	5.0	0	0	None



Parkview Group



Issued in accordance with BASIX Thermal Comfort Simulation Method

Certifica	ite # 1473013	35			Issued	: 22/07/20	014 A	ccreditation	# VIC/BDAV/12/1473
			Thermal p	perform	ance spec	ifications	\$		Page 7 of 9
Unit number	Number of Bedrooms	Floor a	area (M ²)		ct. loads J/M²/y)	Star	Window in	Window in	Thermal Comfort Upgrades
number	Beurooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
18.11	2	80	0	30	10	6.5	0	0	None
18.12	1	51	0	25	15	6.5	0	0	None
19.01	1	65	0	39	24	5.0	0	1	None
19.02	1	68	0	16	8	8.0	0	0	None
19.03	2	72	5	18	9	7.5	1	0	None
19.04	1	51	9	27	20	6.0	1	0	None
19.05	1	59	0	18	18	7.0	0	0	None
19.06	1	53	0	22	20	6.5	0	0	None
19.07	3	100	0	27	13	6.5	0	0	None
19.08	2	86	0	40	14	5.5	0	0	None
19.09	2	79	5	39	10	6.0	1	0	None
19.10	2	73	0	53	9	5.0	0	0	None
19.11	2	80	0	30	10	6.5	0	0	None
19.12	1	51	0	25	15	6.5	0	0	None
20.01	1	65	0	39	23	5.0	0	1	None
20.02	1	68	0	16	8	8.0	0	0	None
20.03	2	72	5	18	9	7.5	1	0	None
20.04	1	51	9	27	20	6.0	1	0	None
20.05	1	59	0	19	18	7.0	0	0	None
20.06	1	53	0	22	19	6.5	0	0	None
20.07	3	100	0	28	13	6.5	0	0	None
20.08	2	86	0	41	14	5.5	0	0	None
20.09	2	79	5	39	10	6.0	1	0	None
20.10	2	73	0	53	9	5.0	0	0	None
20.11	2	80	0	29	10	7.0	0	0	None
20.12	1	51	0	25	15	6.5	0	0	None
21.01	1	65	0	39	23	5.0	0	1	None
21.02	1	68	0	16	8	8.0	0	0	None
21.03	2	72	5	18	9	7.5	1	0	None
21.04	1	51	9	27	20	6.0	1	0	None
21.05	1	59	0	19	18	7.0	0	0	None
21.06	1	53	0	22	19	6.5	0	0	None
21.07	3	100	0	28	13	6.5	0	0	None
21.08	2	86	0	41	14	5.5	0	0	None
21.09	2	79	5	39	10	6.0	1	0	None



Parkview Group



Issued in accordance with BASIX Thermal Comfort Simulation Method

Certifica	te # 1473013	35			Issued	: 22/07/20)14 A	ccreditation	# VIC/BDAV/12/1473
			Thermal	perform	ance spec	ifications	5		Page 8 of 9
Unit	Number of	Floor a	Floor area (M ²)		ct. loads J/M²/y)	1 ² /y) Star	Window	Window	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	10
21.10	2	73	0	53	9	5.0	0	0	None
21.11	2	80	0	29	10	7.0	0	0	None
21.12	1	51	0	25	15	6.5	0	0	None
22.01	1	65	0	39	23	5.0	0	1	None
22.02	1	68	0	16	8	8.0	0	0	None
22.03	2	72	5	18	9	7.5	1	0	None
22.04	1	51	9	27	20	6.0	1	0	None
22.05	1	59	0	19	18	7.0	0	0	None
22.06	1	53	0	22	19	6.5	0	0	None
22.07	3	100	0	28	13	6.5	0	0	None
22.08	2	86	0	41	14	5.5	0	0	None
22.09	2	79	5	39	10	6.0	1	0	None
22.10	2	73	0	53	9	5.0	0	0	None
22.11	2	80	0	29	10	7.0	0	0	None
22.12	1	51	0	25	15	6.5	0	0	None
23.01	1	65	0	42	23	5.0	0	1	None
23.02	1	68	0	20	9	7.5	0	0	None
23.03	2	72	5	22	9	7.5	1	0	None
23.04	1	51	9	27	20	6.0	1	0	None
23.05	1	59	0	19	18	7.0	0	0	None
23.06	1	53	0	22	19	6.5	0	0	None
23.07	3	100	0	28	13	6.5	0	0	None
23.08	2	86	0	44	13	5.5	0	0	None
23.09	2	79	5	42	10	5.5	1	0	None
23.10	2	73	0	53	9	5.0	0	0	None
23.11	2	80	0	29	10	7.0	0	0	None
23.12	1	51	0	25	15	6.5	0	0	None
24.01	2	103	0	44	26	4.5	0	1	None
24.02	2	117	0	11	11	8.0	0	1	None
24.03	2	72	0	48	15	5.0	0	1	None
24.04	1	59	0	22	14	7.0	0	0	None
24.05	1	59	0	22	14	7.0	0	0	None
24.06	1	53	0	25	17	6.5	0	0	None
24.07	1	55	0	45	18	5.0	0	0	None
24.08	2	104	0	50	17	4.5	0	0	None



Parkview Group



Issued in accordance with BASIX Thermal Comfort Simulation Method

Certifica	te # 1473013	35			Issued	: 22/07/20	014	Accreditation	# VIC/BDAV/12/1473
			Thermal p	perform	ance spec	ifications	5		Page 9 of 9
Unit	Number of	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star	Window	Window	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom		merma comor opgrades
24.09	2	78	0	56	10	5.0	0	1	R1.0 to exposed floor
24.10	2	72	0	40	32	4.5	0	0	None
24.11	2	80	0	31	10	6.5	0	0	None
25.01	2	103	0	56	28	4.0	0	1	None
25.02	2	72	0	27	17	6.5	0	1	None
25.03	1	59	0	31	14	6.5	0	0	None
25.04	1	59	0	32	14	6.0	0	0	None
25.05	1	53	0	33	17	6.0	0	0	None
25.06	3	158	0	51	18	4.5	0	0	None
25.08	3	109	0	46	15	5.0	0	0	None
25.09	2	85	0	24	16	6.5	0	0	None



NatHERS Certificate **New Dwelling**



5.5 Stars

Simulation Software
Software Name
Software Version
Engine Version

Simulation Details

Project Name Date Location Climate file Adjusted Star Rating Conditioned Area **Unconditioned Area** Adjusted Cooling Adjusted Heating Adjusted Total

Dwelling Address

DP Number Unit Number Lot Number House Number Street Name **Development Name** Suburb

Client Details

Name Phone Email Postal Address Street Details

Assessor Details

Name Phone Email Postal Address Street Details

Signed by the Assessor.....

BERS Pro 4.2 Release 110811/A CHENATH V2.13

H-100 unit C02.01 6/7/2013 HOMEBUSH BAY climat56.TXT	_
5.5 Stars	
99.63 m²	
0.00 m²	Energy Rating Certificate Number 14730135
21.7 MJ/m ²	Single-dwelling rating 6.0 stars
32.9 MJ/m ²	
54.5 MJ/m ²	$\overline{\mathbf{M}}$ multi-unit development (attach listing of ratings) heating $\underline{32}$ MJ/m ²
04.0 100/11	If selected, data specified is the average across the entire development cooling MJ/m ²
	Recessed downlights confirmation: Rated with Rated without
1134933	Assessor Name/Number Tracey Cools VIC/BDAV/12/1473
	ctor a
2	Assessor Signature Date 22/7/14

1-7 Australia Avenue Australia Towers II - Tower C Sydney Olympic Park NSW 2127

Parkview Construction Pty Ltd (02) 9506 1500 Fax (02) 9506 1599 Jessica.Vranjes@pview.com.au Suite 3, 2 Wentworth Park Rd, Glebe, NSW 2037 Suite 3, 2 Wentworth Park Rd, Glebe, NSW 2037

Tracey Cools 02 9970 6181 Fax 02 9944 0293 admin@efficientliving.com.au

13/13 Lagoon Street, Narrabeen NSW 2101

Tilted roof windows with blinds cannot be modelled using this version of BERSPro. All windows are modelled with Holland Blinds for regulatory purposes.

Project H-100 unit C02.01 Level 1 Run 1 HOMEBUSH BAY PC 2127 Lat -33.90 Long 151.10 Climate File climat56.TXT Summary 99.6 m² Conditioned Area Unconditioned Area 0.0 m² Total Floor Area 99.6 m² Total Glazed Area 60.9 m² Total External Solid door Area 2.1 m² Glass to Floor Area 61.1 % Gross External Wall Area 159.8 m² Net External Wall Area 96.9 m² Window 43.6 m² STG-05-060a Stegbar Uval 4.81 SHGC 0.41 Glass 4mm Green/6mm Air Gap/4mm Clear Frame Stegbar: Aluminium Sliding Door - Double Glazed 17.3 m² STG-05-009a Stegbar Uval 3.76 SHGC 0.61 Glass 3mm Clear/6mm Air Gap/4mm Clear Frame Stegbar: Aluminium Awning Window - Double Glazed External Wall 11.0 m² Autoclaved Aerated Concrete No Insulation 10.7 m² Metal Clad Cavity Panel Bulk Insulation R 1.4 75.2 m² Autoclaved Aerated Concrete to neighbour No Insulation Internal Wall 68.0 m² Cavity Panel 70mm gap No Insulation External Floor 24.9 $\ensuremath{\texttt{m}}^2$ Concrete Slab, Unit Below Carpet 10mm No Insulation 14.8 m² Concrete Slab, Unit Below Ceramic Tiles 8mm No Insulation 60.0 m² Concrete Slab, Unit Below 80/20 Carpet 10mm/Ceramic No Insulation External Ceiling 99.6 $\ensuremath{\mathtt{m}}^2$ Plasterboard No Insulation Apartment above Roof (Horizontal area) 99.6 m^2 Concrete No Insulation, Only an Air Gap $0\,^{\circ}$ slope ~ Skillion roof

Energy Rating Certificate Number 14730135
single-dwelling rating
multi-unit development (attach listing of ratings) If selected, data specified is the average across the entire development MJ/m ² cooling
Recessed downlights confirmation: Rated with Rated without
Assessor Name/Number Tracey Cools VIC/BDAV/12/1473
Assessor Signature Date 22/7/14

BASIX[®]Certificate

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

Multi Dwelling

Certificate number: 448488M_04

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 29/06/2009 published by Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

This certificate is a revision of certificate number 448488M_03 lodged with the consent authority or certifier on 09 September 2013 with application 13/120920-5.

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

Director-General Date of issue: Tuesday, 22 July 2014 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary					
Project name	Australia Towers II - Tower C_04				
Street address	1-7 Australia Avenue Sydney Olympic Park 2127				
Local Government Area	Auburn Council				
Plan type and plan number	deposited 1134933				
Lot no.	2				
Section no.	-				
No. of residential flat buildings	1				
No. of units in residential flat buildings	288				
No. of multi-dwelling houses	0				
No. of single dwelling houses	0				
Project score					
Water	✓ 48 Target 40				
Thermal Comfort	V Pass Target Pass				
Energy	✓ 21 Target 20				

Water score comprises:

• Sydney Olympic Park Authority reticulated alternative water: 12.4

• Other water efficiency commitments: 35.6

Certificate Prepared by

Name / Company Name: Efficient Living

ABN (if applicable): 82 116 346 082

Description of project

Project address

Australia Towers II - Tower C_04
1-7 Australia Avenue Sydney Olympic Park 2127
Auburn Council
deposited 1134933
2
-
1
288
0
0
10480
1040
1334
329
45

Common area landscape		
Common area lawn (m²)	832	
Common area garden (m ²)	602	
Area of indigenous or low water use species (m ²)	0	
Assessor details		
Assessor number	BDAV/12/1473	
Certificate number	14730135	
Climate zone	56	
Project score		
Water	48	Target 40
Thermal Comfort	V Pass	Target Pass
Energy	21	Target 20

Water score comprises:

• Sydney Olympic Park Authority reticulated alternative water: 12.4

• Other water efficiency commitments: 35.6

Description of project

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

Residential flat buildings - Tower C, 288 dwellings, 25 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms		Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
02.01	2	100.0	0.0	0	0	02.02	4 or mo be	133.0 ore drooms	0.0	0	0	02.03	2	79.0	5.0	0	0	02.04	2	89.0	0.0	0	0
02.05	2	83.0	0.0	0	0	02.06	2	78.0	0.0	0	0	02.07	2	64.0	0.0	0	0	02.08	2	83.0	0.0	0	0
03.01	2	100.0	0.0	0	0	03.02	4 or mo be	133.0 ore drooms	0.0	0	0	03.03	2	79.0	5.0	0	0	03.04	1	51.0	9.0	0	0
03.05	1	59.0	0.0	0	0	03.06	1	53.0	0.0	0	0	03.07	1	49.0	0.0	0	0	03.08	2	81.0	0.0	0	0
03.09	1	58.0	0.0	0	0	03.10	2	79.0	5.0	0	0	03.11	2	73.0	0.0	0	0	03.12	2	80.0	0.0	0	0
03.13	2	83.0	0.0	0	0	04.01	2	100.0	0.0	0	0	04.02	4 or mo	133.0 ore drooms	0.0	0	0	04.03	2	79.0	5.0	0	0
04.04	1	51.0	9.0	0	0	04.05	1	59.0	0.0	0	0	04.06	1	53.0	0.0	0	0	04.07	1	49.0	0.0	0	0
04.08	2	81.0	0.0	0	0	04.09	1	58.0	0.0	0	0	04.10	2	79.0	5.0	0	0	04.11	2	73.0	0.0	0	0
04.12	2	80.0	0.0	0	0	04.13	2	83.0	0.0	0	0	05.01	2	100.0	0.0	0	0	05.02	4 or mo be	133.0 ore drooms	0.0	0	0
05.03	2	79.0	5.0	0	0	05.04	1	51.0	9.0	0	0	05.05	1	59.0	0.0	0	0	05.06	1	53.0	0.0	0	0
05.07	1	49.0	0.0	0	0	05.08	2	81.0	0.0	0	0	05.09	1	58.0	0.0	0	0	05.10	2	79.0	5.0	0	0

Dwelling no.	No. of bedrooms		Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
05.11	2	73.0	0.0	0	0	05.12	2 80.0	0.0	0	0	05.13	2	83.0	0.0	0	0	06.01	2	100.0	0.0	0	0
06.02	4 or mo be	133.0 pre drooms	0.0	0	0	06.03	2 79.0	5.0	0	0	06.04	1	51.0	9.0	0	0	06.05	1	59.0	0.0	0	0
06.06	1	53.0	0.0	0	0	06.07	1 49.0	0.0	0	0	06.08	2	81.0	0.0	0	0	06.09	1	58.0	0.0	0	0
06.10	2	79.0	5.0	0	0	06.11	2 73.0	0.0	0	0	06.12	2	80.0	0.0	0	0	06.13	2	83.0	0.0	0	0
07.01	2	100.0	0.0	0	0	07.02	4 133.0 or more bedrooms	0.0	0	0	07.03	2	79.0	5.0	0	0	07.04	1	51.0	9.0	0	0
07.05	1	59.0	0.0	0	0	07.06	1 53.0	0.0	0	0	07.07	1	49.0	0.0	0	0	07.08	2	81.0	0.0	0	0
07.09	1	58.0	0.0	0	0	07.10	2 79.0	5.0	0	0	07.11	2	73.0	0.0	0	0	07.12	2	80.0	0.0	0	0
07.13	2	83.0	0.0	0	0	08.01	2 100.0	0.0	0	0	08.02	4 or mo bea	133.0 ore drooms	0.0	0	0	08.03	2	79.0	5.0	0	0
08.04	1	51.0	9.0	0	0	08.05	1 59.0	0.0	0	0	08.06	1	53.0	0.0	0	0	08.07	1	49.0	0.0	0	0
08.08	2	81.0	0.0	0	0	08.09	1 58.0	0.0	0	0	08.10	2	79.0	5.0	0	0	08.11	2	73.0	0.0	0	0
08.12	2	80.0	0.0	0	0	08.13	2 83.0	0.0	0	0	09.01	2	100.0	0.0	0	0	09.02	4 or mo be	133.0 pre drooms	0.0	0	0
09.03	2	79.0	5.0	0	0	09.04	1 51.0	9.0	0	0	09.05	1	59.0	0.0	0	0	09.06	1	53.0	0.0	0	0
09.07	1	49.0	0.0	0	0	09.08	2 81.0	0.0	0	0	09.09	1	58.0	0.0	0	0	09.10	2	79.0	5.0	0	0
09.11	2	73.0	0.0	0	0	09.12	2 80.0	0.0	0	0	09.13	2	83.0	0.0	0	0	10.01	2	100.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
10.02	4 or mo bea	113.0 ore drooms	0.0	0	0	10.03	3	79.0	5.0	0	0	10.04	1	151.0	9.0	0	0	10.05	1	159.0	0.0	0	0
10.06	1	53.0	0.0	0	0	10.07	1	49.0	0.0	0	0	10.08	2	81.0	0.0	0	0	10.09	1	58.0	0.0	0	0
10.10	2	79.0	5.0	0	0	10.11	2	73.0	0.0	0	0	10.12	2	80.0	0.0	0	0	10.13	2	83.0	0.0	0	0
11.01	2	100.0	0.0	0	0	11.02	4 or mo be	133.0 ore drooms	0.0	0	0	11.03	2	79.0	5.0	0	0	11.04	1	51.0	9.0	0	0
11.05	1	59.0	0.0	0	0	11.06	1	53.0	0.0	0	0	11.07	1	49.0	0.0	0	0	11.08	2	81.0	0.0	0	0
11.09	1	58.0	0.0	0	0	11.10	2	79.0	5.0	0	0	11.11	2	73.0	0.0	0	0	11.12	2	80.0	0.0	0	0
11.13	2	83.0	0.0	0	0	12.01	2	100.0	0.0	0	0	12.02	4 or mo bea	133.0 ore drooms	0.0	0	0	12.03	2	79.0	5.0	0	0
12.04	1	51.0	9.0	0	0	12.05	1	59.0	0.0	0	0	12.06	1	53.0	0.0	0	0	12.07	1	49.0	0.0	0	0
12.08	2	89.0	0.0	0	0	12.09	1	58.0	0.0	0	0	12.10	2	79.0	5.0	0	0	12.11	2	73.0	0.0	0	0
12.12	2	80.0	0.0	0	0	12.13	2	83.0	0.0	0	0	13.01	3	123.0	0.0	0	0	13.02	1	68.0	0.0	0	0
13.03	2	72.0	5.0	0	0	13.04	1	51.0	9.0	0	0	13.05	1	59.0	0.0	0	0	13.06	1	53.0	0.0	0	0
13.07	1	49.0	0.0	0	0	13.08	3	81.0	0.0	0	0	13.09	2	79.0	5.0	0	0	13.10	2	73.0	0.0	0	0
13.11	2	80.0	0.0	0	0	14.01	1	65.0	0.0	0	0	14.02	1	68.0	0.0	0	0	14.03	2	72.0	5.0	0	0
14.04	1	51.0	9.0	0	0	14.05	1	59.0	0.0	0	0	14.06	1	53.0	0.0	0	0	14.07	3	100.0	0.0	0	0
14.08	2	86.0	0.0	0	0	14.09	2	79.0	5.0	0	0	14.10	2	73.0	0.0	0	0	14.11	2	80.0	0.0	0	0
14.12	1	51.0	0.0	0	0	15.01	1	65.0	0.0	0	0	15.02	1	68.0	0.0	0	0	15.03	2	72.0	5.0	0	0
15.04	1	51.0	9.0	0	0	15.05	1	59.0	0.0	0	0	15.06	1	53.0	0.0	0	0	15.07	3	100.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
15.08	2	86.0	0.0	0	0	15.09	2	79.0	5.0	0	0	15.10	2	73.0	0.0	0	0	15.11	2	80.0	0.0	0	0
15.12	1	51.0	0.0	0	0	16.01	1	65.0	0.0	0	0	16.02	1	68.0	0.0	0	0	16.03	2	72.0	5.0	0	0
16.04	1	51.0	9.0	0	0	16.05	1	59.0	0.0	0	0	16.06	1	53.0	0.0	0	0	16.07	3	100.0	0.0	0	0
16.08	2	86.0	0.0	0	0	16.09	2	79.0	5.0	0	0	16.10	2	73.0	0.0	0	0	16.11	2	80.0	0.0	0	0
16.12	1	51.0	0.0	0	0	17.01	1	65.0	0.0	0	0	17.02	1	68.0	0.0	0	0	17.03	2	72.0	5.0	0	0
17.04	1	51.0	9.0	0	0	17.05	1	59.0	0.0	0	0	17.06	1	53.0	0.0	0	0	17.07	3	100.0	0.0	0	0
17.08	2	86.0	0.0	0	0	17.09	2	79.0	5.0	0	0	17.10	2	73.0	0.0	0	0	17.11	2	80.0	0.0	0	0
17.12	1	51.0	0.0	0	0	18.01	1	65.0	0.0	0	0	18.02	1	68.0	0.0	0	0	18.03	2	72.0	5.0	0	0
18.04	1	51.0	9.0	0	0	18.05	1	59.0	0.0	0	0	18.06	1	53.0	0.0	0	0	18.07	3	100.0	0.0	0	0
18.08	2	86.0	0.0	0	0	18.09	2	79.0	5.0	0	0	18.10	2	73.0	0.0	0	0	18.11	2	80.0	0.0	0	0
18.12	1	51.0	0.0	0	0	19.01	1	65.0	0.0	0	0	19.02	1	68.0	0.0	0	0	19.03	2	72.0	5.0	0	0
19.04	1	51.0	9.0	0	0	19.05	1	59.0	0.0	0	0	19.06	1	53.0	0.0	0	0	19.07	3	100.0	0.0	0	0
19.08	2	86.0	0.0	0	0	19.09	2	79.0	5.0	0	0	19.10	2	73.0	0.0	0	0	19.11	2	80.0	0.0	0	0
19.12	1	51.0	0.0	0	0	20.01	1	65.0	0.0	0	0	20.02	1	68.0	0.0	0	0	20.03	2	72.0	5.0	0	0
20.04	1	51.0	9.0	0	0	20.05	1	59.0	0.0	0	0	20.06	1	53.0	0.0	0	0	20.07	3	100.0	0.0	0	0
20.08	2	86.0	0.0	0	0	20.09	2	79.0	5.0	0	0	20.10	2	73.0	0.0	0	0	20.11	2	80.0	0.0	0	0
20.12	1	51.0	0.0	0	0	21.01	1	65.0	0.0	0	0	21.02	1	68.0	0.0	0	0	21.03	2	72.0	5.0	0	0
21.04	1	51.0	9.0	0	0	21.05	1	59.0	0.0	0	0	21.06	1	53.0	0.0	0	0	21.07	3	100.0	0.0	0	0
21.08	2	86.0	0.0	0	0	21.09	2	79.0	5.0	0	0	21.10	2	73.0	0.0	0	0	21.11	2	80.0	0.0	0	0
21.12	1	51.0	0.0	0	0	22.01	1	65.0	0.0	0	0	22.02	1	68.0	0.0	0	0	22.03	2	72.0	5.0	0	0
22.04	1	51.0	9.0	0	0	22.05	1	59.0	0.0	0	0	22.06	1	53.0	0.0	0	0	22.07	3	100.0	0.0	0	0
22.08	2	86.0	0.0	0	0	22.09	2	79.0	5.0	0	0	22.10	2	73.0	0.0	0	0	22.11	2	80.0	0.0	0	0
22.12	1	51.0	0.0	0	0	23.01	1	65.0	0.0	0	0	23.02	1	68.0	0.0	0	0	23.03	2	72.0	5.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	nditi a (n	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms		Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
23.04	1	51.0	9.0	0	0	23.05	1	59.0	0.0	0	0	23.06	1	53.0	0.0	0	0	23.07	3	100.0	0.0	0	0
23.08	2	86.0	0.0	0	0	23.09	2	79.0	5.0	0	0	23.10	2	73.0	0.0	0	0	23.11	2	80.0	0.0	0	0
23.12	1	51.0	0.0	0	0	24.01	2	103.0	0.0	0	0	24.02	2	117.0	0.0	0	0	24.03	2	72.0	0.0	0	0
24.04	1	59.0	0.0	0	0	24.05	1	59.0	0.0	0	0	24.06	1	53.0	0.0	0	0	24.07	1	55.0	0.0	0	0
24.08	2	104.0	0.0	0	0	24.09	2	78.0	0.0	0	0	24.10	2	72.0	0.0	0	0	24.11	2	80.0	0.0	0	0
25.01	2	103.0	0.0	0	0	25.02	2	72.0	0.0	0	0	25.03	1	59.0	0.0	0	0	25.04	1	59.0	0.0	0	0
25.05	1	53.0	0.0	0	0	25.06	3	158.0	0.0	0	0	25.08	3	109.0	0.0	0	0	25.09	2	85.0	0.0	0	0

Description of project

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

Common areas of unit building - Tower C

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Car park ground to basement 2	7602	Car park basement 3 & 4	5704	Lift car (No. 1)	-
Lift car (No. 2)	-	Lift car (No. 3)	-	Storage	1336
Switch Room	39	Garbage room	289	Fan Room	297
Plant room	384	Mail Room	44	Ground floor & basement lobby	403
Hallway level 1 to 24	1700				

Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Tower C

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Comfort

(b) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for multi-dwelling houses

3. Commitments for single dwelling houses

4. 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 - Tower C

(a) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	~	~	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		~	~
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		~	V
(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		 Image: A second s	~
(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.		 Image: A second s	~
(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.	~	 Image: A set of the set of the	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		 Image: A set of the set of the	
(g) The pool or spa must be located as specified in the table.	~	 Image: A set of the set of the	
(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.	~	~	~

			Fixtur	es		Appli	ances		Indi	vidual pool		In	dividual	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
25.08, 25.09	3 star (> 7.5 but <= 9 L/min)	3 star	3 star	3 star	-	-	2 star	-	-	-	-	-	-	-

			Fixtur	es		Appl	iances		Indi	vidual pool		Ir	ndividual	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
10.02, 10.03, 10.04, 10.05, 10.06, 10.07, 10.08, 10.09, 10.10, 10.11, 10.12, 10.13, 11.01, 11.02, 11.03, 11.04, 11.05, 11.06, 11.07, 11.08, 11.09, 11.00, 11.01, 11.02, 11.03, 11.04, 11.05, 11.04, 11.05, 11.04, 11.02, 11.03, 11.04, 11.02, 11.04, 11.02, 11.04, 11.02, 11.04, 11.02, 11.04, 11.02, 12.02, 12.03, 12.04, 12.02, 12.04, 12.05, 12.06, 12.07, 12.08, 12.09, 12.11, 12.12, 12.13, 13.01, 13.02,	3 star (> 7.5 but <= 9 L/min)	3 star	3 star	3 star	no		2 star							
	Fixtures					Appliances In			Individual pool			Individual spa		
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)welling 10.	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 Spa shaded
3.03, 3.04, 3.05, 3.06, 3.07, 3.08, 3.09, 3.10, 3.11, 4.01, 4.02, 4.03, 4.04, 4.05, 4.06, 4.07, 4.08, 4.09, 4.10, 4.11, 4.12, 5.01, 5.02, 5.03, 5.04, 5.05, 5.06, 5.07, 5.08, 5.09, 5.11, 5.02, 5.08, 5.09, 5.11, 5.02, 5.03, 5.04, 5.03, 5.04, 5.04, 5.05, 5.06, 5.07, 5.08, 5.09, 5.11, 5.02, 5.03, 5.04, 5.02, 5.03, 5.04, 5.02, 5.03, 5.04, 5.02, 5.03, 5.04, 5.02, 5.03, 5.04, 5.02, 5.03, 5.04, 5.02, 5.04, 5.02, 5.03, 5.04, 5.02, 5.03, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.03, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.03, 5.04, 5.02, 5.03, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.03, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04, 5.02, 5.04,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5	neads	systems	taps	taps	or diversion	wasners		volume)				Volume)		

	Fixtures					Appli	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
16.08, 16.09, 16.10, 16.11, 16.12, 17.01, 17.02, 17.03, 17.04, 17.05, 17.06, 17.07, 17.08, 17.09, 17.10, 17.10, 17.11, 17.12, 18.01, 18.02,														

			Fixtur	es		Appl	iances		Indi	vidual pool		Ir	ndividual	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
02.01, 02.02, 02.03, 02.04, 02.05, 02.06, 02.07, 02.08, 03.01, 03.02, 03.03, 03.04, 03.05, 03.06, 03.07, 03.08, 03.09, 03.10, 03.11, 03.12, 03.13, 04.01, 04.02, 04.03, 04.04, 04.05, 04.06, 04.07, 04.08, 04.09, 04.10, 04.11, 04.12, 04.13, 05.01, 05.02, 05.03, 05.04, 05.05, 05.06, 05.00, 05.05, 05.06, 05.00, 05.05, 05.06, 05.05, 05.06, 05.06, 05.05, 05.06, 05.06, 05.06, 05.06, 05.05, 05.06, 05.06, 05.06, 05.06, 05.06, 05.05, 05.06, 05.06, 05.06, 05.05, 05.06, 05.05, 05.06, 05.05, 05.06, 05.05, 05.06, 05.05, 05.06, 05.05, 05.06, 05.05, 05.06, 05.05,	3 star (> 7.5 but <= 9 L/min)	3 star	3 star	3 star	no		2 star							

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			Fixtur	es		Appli	ances		Indi	vidual pool		Ir	dividual	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
05.07, 05.08, 05.09, 05.10, 05.11, 05.12, 05.13, 06.01, 06.02, 06.03, 06.04, 06.05, 06.06, 06.07, 06.08, 06.09, 06.10, 06.11, 06.12, 06.13, 07.01, 07.02, 07.03, 07.04, 07.05, 07.06, 07.07, 07.08, 07.07, 07.08, 07.09, 07.11, 07.12, 07.13, 08.01, 08.02, 08.03, 08.04, 08.05, 08.06, 08.07, 08.03, 08.04, 08.05, 08.05, 08.05, 08.07, 09.07,														

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			Fixtur				ances			vidual pool			dividual	
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
08.08, 08.09,														
08.10, 08.11,														
08.12, 08.13, 09.01,														
09.02, 09.03,														
09.04, 09.05,														
09.06, 09.07,														
09.08, 09.09,														
09.10, 09.11, 09.12,														
09.12, 09.13, 10.01,														
18.04, 18.05,														
18.06, 18.07,														
18.08, 18.09,														
18.10, 18.11, 18.12,														
19.01, 19.02,														
19.03, 19.04,														
19.05, 19.06,														
19.07, 19.08,														
19.09, 19.10, 19.11,														

			Fixtur	205		Appli	ances		Indi	vidual pool		In	dividual	600
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 Spa shaded
19.12, 20.01, 20.03, 20.04, 20.05, 20.06, 20.07, 20.08, 20.09, 20.10, 20.11, 20.12, 21.01, 21.02, 21.03, 21.04, 21.05, 21.06, 21.07, 21.08, 21.07, 21.08, 21.09, 21.10, 21.11, 21.02, 21.03, 21.04, 21.07, 21.08, 21.09, 21.10, 21.11, 21.02, 21.01, 21.02, 21.03, 21.04, 21.05, 21.06, 21.07, 21.08, 21.09, 21.10, 21.11, 22.02, 22.03, 22.04, 22.04, 22.05, 22.06, 22.07, 22.08, 22.09, 22.10, 22.01, 22.01, 22.02, 22.03, 22.04, 22.05, 22.04, 22.05, 22.06, 22.07, 22.08, 22.09, 22.10, 22.11, 22.02, 22.03, 22.04, 22.04, 22.05, 22.04, 22.05, 22.04, 22.05, 22.04, 22.05, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.02, 22.03, 22.04, 22.03, 22.04, 22.03, 22.04, 22.03, 22.04, 22.03, 22.04, 22.03, 22.04, 22.03, 22.04, 22.03, 22.04, 22.03, 22.04, 22.03, 22.03, 22.04, 22.03, 22.04, 22.03, 22.03, 22.04, 22.03, 23.03, 23.03,														

			Fixtur	es		Appli	ances		Indi	vidual pool		In	dividual	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
23.04, 23.05, 23.06, 23.07, 23.08, 23.09, 23.10, 23.11, 23.12, 24.01, 24.02, 24.03, 24.04, 24.05, 24.06, 24.06, 24.07, 24.06, 24.07, 24.08, 24.09, 24.10, 24.11, 25.01, 25.02, 25.03, 25.04, 25.05,														

			Alternativ	e water source				
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
25.08, 25.09	reticulated alternative water supply	-	See central systems	yes	yes	-	-	-
All other dwellings	reticulated alternative water supply	-	See central systems	yes	yes	no	-	-

ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	~	~	~
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		~	~
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		~	~
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		~	~
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	~	~	~
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:			
(aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and		 Image: A second s	
(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;		v	
(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 ver		tilation system	Kitchen venti	ilation system	Laundry vent	ilation system	
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control	
25.08, 25.09	central hot water system 1	individual fan, ducted to façade or roof	interlocked to light	individual fan, not ducted	manual switch on/off	individual fan, ducted to façade or roof	interlocked to light	

	Hot water	Bathroom ven	tilation system	Kitchen ver	ntilation system	Laundry ven	tilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
no. 02.01, 02.02, 02.03, 02.04, 02.05, 02.06, 02.07, 02.08, 03.01, 03.02, 03.03, 03.04, 03.05, 03.06, 03.07, 03.08, 03.09, 03.10, 03.11, 03.12, 03.13, 04.01, 04.02, 04.03, 04.04, 04.05, 04.06, 04.07, 04.08, 04.09, 04.10, 04.11, 04.12, 04.13, 05.01, 05.02, 05.03, 05.04, 05.05, 05.06, 05.07,	central hot water system 1	individual fan, ducted to façade or roof	interlocked to light	individual fan, not ducted	manual switch on/off	individual fan, ducted to façade or roof	interlocked to light

	Hot water	Bathroom v	entilation system	Kitchen vent	ilation system	Laundry ven	tilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
05.08,							
05.09, 05.10,							
05.11,							
05.12,							
05.13,							
06.01,							
06.02, 06.03,							
06.04,							
06.05,							
06.06,							
06.07, 06.08,							
06.09,							
06.10,							
06.11,							
06.12, 06.13,							
06.13, 07.01,							
07.02,							
07.03,							
07.04,							
07.05, 07.06,							
07.07,							
07.08,							
07.09,							
07.10, 07.11,							
07.12,							
07.13,							
08.01,							
08.02, 08.03,							
08.04,							
08.05,							
08.06,							
08.07, 08.08,							
08.09,							

	Hot water	Bathroom vo	ntilation system	Kitohon vont	ilation system	Loundry vont	ilation system
			-		-	-	-
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
08.10,							
08.11,							
08.12, 08.13,							
09.01,							
09.02,							
09.03,							
09.04, 09.05,							
09.05, 09.06,							
09.07,							
09.08,							
09.09,							
09.10, 09.11,							
09.12,							
09.13,							
10.01,							
10.02, 10.03,							
10.03, 10.04,							
10.05,							
10.06,							
10.07,							
10.08, 10.09,							
10.09,							
10.11,							
10.12,							
10.13, 11.01,							
11.02,							
11.03,							
11.04,							
11.05,							
11.06, 11.07,							
11.08,							
11.09,							
11.10,							
11.11,							

	Hot water	Bathroom v	entilation system	Kitchen vent	ilation system	Laundry ven	tilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
11.12,							
11.13,							
12.01, 12.02,							
12.02, 12.03,							
12.04,							
12.05,							
12.06,							
12.07, 12.08,							
12.08, 12.09,							
12.10,							
12.11,							
12.12,							
12.13, 13.01,							
13.01, 13.02,							
13.03,							
13.04,							
13.05,							
13.06,							
13.07, 13.08,							
13.09,							
13.10,							
13.11,							
14.01, 14.02,							
14.02, 14.03,							
14.04,							
14.05,							
14.06,							
14.07, 14.08,							
14.08, 14.09,							
14.10,							
14.11,							
14.12,							
15.01, 15.02,							
15.02, 15.03,							

	Hot water	Bathroom v	entilation system	Kitchen vent	ilation system	Laundry ven	tilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
15.04,							
15.05,							
15.06, 15.07,							
15.08,							
15.09,							
15.10,							
15.11,							
15.12,							
16.01,							
16.02, 16.03,							
16.04,							
16.05,							
6.06,							
6.07,							
6.08,							
16.09, 16.10,							
16.11,							
16.12,							
17.01,							
17.02,							
17.03,							
17.04, 17.05,							
17.06,							
17.07,							
17.08,							
17.09,							
17.10, 17.11,							
17.11, 17.12,							
8.01,							
8.02,							
8.03,							
8.04,							
8.05, 8.06,							
8.06, 8.07,							
8.08,							

		Detherson	utile the second second		lation eveters	1	Hatlan avetana
	Hot water		entilation system		ilation system		ilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
18.09,							
18.10,							
18.11,							
18.12, 19.01,							
19.01, 19.02,							
19.02, 19.03,							
19.03, 19.04,							
19.05,							
19.06,							
19.07,							
19.08,							
19.09,							
19.10,							
19.11,							
19.12, 20.01,							
20.01, 20.02,							
20.02,							
20.04,							
20.05,							
20.06,							
20.07,							
20.08,							
20.09,							
20.10, 20.11,							
20.11, 20.12,							
20.12, 21.01,							
21.02,							
21.03,							
21.04.							
21.05,							
21.06,							
21.07,							
21.08, 21.09,							
21.09, 21.10,							
21.10, 21.11,							
21.12,							
22.01,							

	Hot water	Bathroom ver	ntilation system	Kitchen vent	ilation system	Laundry vent	tilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
no. 22.02, 22.03, 22.04, 22.05, 22.06, 22.07, 22.08, 22.09, 22.10, 22.11, 22.12, 23.01, 23.02, 23.03, 23.04, 23.05, 23.06, 23.07, 23.08, 23.07, 23.08, 23.09, 23.10, 23.11, 23.12, 24.01, 24.02, 24.03, 24.04, 24.05, 24.06, 24.07, 24.08, 24.09, 24.10, 24.10, 24.10, 24.11, 25.01, 25.02, 25.03, 25.04, 25.05, 25.06							

	Coo	ling	Hea	ting			Artificia	al lighting			Natural lig	Inting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
25.08	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	3	2	yes	yes	yes	yes	0	no
25.09	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	2	2	yes	yes	yes	yes	0	no
10.03, 11.03, 12.03	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	0	1	yes	yes	yes	yes	1	no
10.08, 11.08, 12.08, 13.08	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	0	1	yes	yes	yes	yes	0	yes
14.01, 15.01, 16.01, 17.01, 18.02, 19.01, 20.01, 21.01, 22.01, 23.01	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1	1	yes	yes	yes	yes	0	yes

				din			A	Lash the				
		ling	Hea				Artificial				Natural lig	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
02.02, 03.02, 04.02, 05.02, 06.02, 07.02, 08.02, 09.02, 10.02, 11.02, 12.02	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	4	1	yes	yes	yes	yes	0	no
13.01, 14.07, 15.07, 16.07, 17.07, 18.07, 19.07, 20.07, 21.07, 22.07, 23.07	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	3	1	yes	yes	yes	yes	0	no
03.08, 04.08, 05.08, 06.08, 07.08, 09.08, 24.01, 24.02, 24.03, 24.09, 25.01, 25.02	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	2	1	yes	yes	yes	yes	0	yes

	Coo	ling	Неа	ting			Artificial	lighting	1		Natural lig	hting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
03.04, 04.04, 05.04, 05.04, 06.04, 07.04, 08.05, 09.05, 10.04, 11.04, 12.04, 13.04, 14.04, 15.04, 15.04, 16.04, 17.04, 18.04, 19.04, 20.04, 21.04, 22.04, 23.04	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1	1	yes	yes	yes	yes	1	no

	Coo	oling	Неа	ting			Artificial	lighting			Natural lig	ghting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
02.03, 03.03, 04.03, 04.03, 04.10, 05.03, 05.10, 06.03, 05.10, 07.03, 07.10, 08.03, 09.10, 10.10, 11.10, 12.10, 13.03, 13.09, 14.03, 14.09, 15.03, 15.09, 16.03, 15.09, 16.03, 16.09, 17.03, 17.09, 18.03, 18.09, 19.03, 19.09, 20.03, 20.09, 21.03, 21.09, 22.03, 22.09, 23.03, 23.09	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	2	1	yes	yes	yes	yes	1	no

	Coc	oling	Hea	ting			Artificial	lighting			Natural lig	ghting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
02.01, 02.04, 02.05, 02.06, 02.07, 02.08, 03.01, 03.10, 03.11, 03.12, 03.13, 04.01, 04.11, 04.12, 04.13, 05.01, 05.11, 05.12, 05.13, 06.01, 05.11, 05.12, 05.13, 06.01, 06.11, 06.12, 06.13, 07.01, 07.11, 07.12, 07.13, 08.01, 08.08, 08.11, 08.08, 08.11, 08.12, 08.13, 09.01, 09.11, 09.12, 09.13, 10.01, 10.11, 10.12, 07.12, 07.13, 09.01, 09.11, 09.12, 09.13, 10.01, 10.11, 10.12, 07.12, 07.13, 09.01, 09.11, 09.12, 09.13, 10.01, 10.11, 10.12, 07.12, 07.13, 09.01, 09.13, 00.01, 09.11, 09.12, 09.13, 00.01,	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	2	1	yes	yes	yes	yes	0	no

					(
	C00	ling	Неа	ating			Artificial	lighting			Natural lig	ghting
Dwelling liv no.	ving areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitche
10.13, 11.01, 11.11, 11.12, 11.13, 12.01, 12.11, 12.12, 12.13, 13.10, 13.11, 14.08, 14.10, 14.11, 15.08, 15.10, 15.11, 16.08, 16.10, 16.11, 17.08, 17.10, 17.11, 18.08, 18.10, 18.11, 19.08, 19.10, 19.11, 20.08, 20.10, 20.11, 21.08, 21.10,						rooms					tollets	

	Coc	oling	Hea	iting			Artificial	lighting			Natural lig	ghting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitchen
23.10, 23.11, 24.08, 24.10, 24.11												

	Coc	oling	Hea	ting			Artificial	lighting			Natural lig	ahtina
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main
03.05, 03.06, 03.07, 03.09, 04.05, 04.06, 04.07, 04.09, 05.05, 05.06, 05.07, 05.06, 05.07, 05.09, 06.05, 06.06, 06.07, 06.09, 07.05, 07.06, 07.07, 07.09, 08.04, 08.06, 08.07, 08.09, 09.04, 09.06, 09.07, 09.09, 10.05, 10.06, 10.07, 10.09, 11.05, 11.06, 11.07, 11.09, 12.05, 12.06, 12.07, 05.07, 05.07, 05.07, 05.09, 05.07, 05.09, 05.07, 05.07, 05.07, 05.09, 05.07, 05.09, 10.05, 10.06, 10.07, 10.09, 11.05, 11.06, 11.07, 11.09, 12.05, 12.06, 12.07, 05.07,	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1	1	yes	yes	yes	yes	0	no

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	Coc	oling	Неа	ating			Artificial	lighting			Natural lig	ghting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitche
12.09, 13.02, 13.05, 13.06, 13.07, 14.02, 14.05, 14.06, 14.12, 15.02, 15.05, 15.06, 15.12, 16.02, 16.05, 16.06, 16.12, 17.02, 17.05, 17.06, 17.12, 18.01,												
18.01, 18.05, 18.06, 18.12, 19.02, 19.05, 19.06, 19.12, 20.02, 20.05, 20.06, 20.12, 21.02, 21.05, 21.06, 21.12, 22.02, 22.05,												

	Co	oling	Hea	ating		1	Artificial	lighting			Natural lig	ghting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
22.06, 22.12, 23.02, 23.05, 23.06, 23.12, 24.04, 24.05, 24.06, 24.07, 25.03, 25.04, 25.05, 25.06												

	Individual p	ool	Individual s	ра			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
25.08, 25.09	-	-	-	-	gas cooktop & electric oven	-	no	3.5 star	-	2 star	no	no

	Individual p	ool	Individual	spa			Appliance	es & other effic	iency meas	sures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
02.01, 02.02, 02.03, 02.04, 02.05, 02.06, 02.07, 02.08, 03.01, 03.02, 03.03, 03.04, 03.05, 03.06, 03.07, 03.08, 03.09, 03.10, 03.11, 03.12, 03.13, 04.01, 04.02, 04.03, 04.04, 04.05, 04.06, 04.07, 04.08, 04.09, 04.10, 04.11, 04.12, 04.13, 05.01, 05.02, 05.03, 05.04, 05.04, 05.04, 05.04, 05.04, 05.04, 05.01, 05.02, 05.03, 05.04,					gas cooktop & electric oven		no	3.5 star		2 star	no	no

	Individual p	bool	Individual	spa			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
05.05, 05.06, 05.07, 05.08, 05.09, 05.10, 05.11, 05.12, 05.13, 06.01, 06.02, 06.03, 06.04, 06.05, 06.06, 06.06, 06.07, 06.08, 06.09, 06.10, 06.11, 06.12, 06.13, 07.01, 07.02,												
07.03, 07.04, 07.05, 07.06, 07.07, 07.08, 07.09, 07.10,												
07.11, 07.12, 07.13, 08.01, 08.02, 08.03,												

	Individual		Individual	opu				es & other effic			1	·
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
09.13, 10.01, 10.02, 10.03, 10.04, 10.05, 10.06, 10.07, 10.08,												
09.12, 09.13, 10.01, 10.02, 10.03, 10.04, 10.05, 10.06, 10.07, 10.08, 10.09, 10.10, 10.11, 10.12, 10.13,												

					,							
	Individual p	ool	Individual s	pa			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
11.03, 11.04, 11.05, 11.06, 11.07, 11.08, 11.09, 11.10, 11.11, 11.12, 11.13, 12.01, 12.02, 12.03, 12.04, 12.05, 12.06, 12.07,												
12.08, 12.09, 12.10, 12.11, 12.12, 12.13, 13.01, 13.02, 13.03, 13.04, 13.05,												
13.06, 13.07, 13.08, 13.09, 13.10, 13.11, 14.01, 14.02, 14.03,												

	Individual p	ool	Individual s	ра			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
14.04, 14.05, 14.06, 14.07, 14.08, 14.07, 14.08, 14.09, 14.10, 14.11, 14.12, 15.01, 15.02, 15.03, 15.04, 15.05, 15.06, 15.07, 15.08, 15.09, 15.10, 15.11, 15.12, 16.01, 15.12, 16.03, 16.04, 16.05, 16.07, 16.08, 16.07, 16.08, 16.09, 16.10, 16.11, 16.12, 17.01, 17.02, 17.03, 17.04, 17.05, 17.04, 17.05,												

	Individual p		Individual	spa				es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
17.06, 17.07, 17.08, 17.09, 17.10, 17.11, 17.12, 18.01, 18.02, 18.03, 18.04, 18.05, 18.06, 18.07, 18.08, 18.09, 18.10, 18.11, 18.12, 19.01, 19.02, 19.03, 19.04, 19.05, 19.06, 19.07, 19.08, 19.09, 19.00, 19.01, 19.09, 19.01, 19.02, 19.03, 19.04, 19.05, 19.06, 19.07, 19.08, 19.09, 19.01, 19.02, 19.03, 19.04, 19.05, 19.06, 19.07, 19.08, 19.00, 19.01, 19.02, 19.02, 19.02, 19.02, 19.03, 19.04, 19.02, 19.03, 19.04, 19.02, 19.03, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.02, 19.02, 19.02, 19.02, 19.02, 19.02, 19.02, 19.02, 19.02, 19.02, 19.02, 19.03, 19.04, 19.02, 19.02, 19.02, 19.03, 19.02, 19.03, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.02, 19.04, 19.04, 19.04, 19.02, 19.04,10,10,10,10,10,10,10,10,10,10,10,10,10,												

	Individual p	ool	Individual	spa			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
20.08, 20.09, 20.10, 20.11, 20.12, 21.01, 21.02, 21.03, 21.04, 21.05, 21.06, 21.07, 21.08, 21.09, 21.10, 21.11, 21.12, 22.01, 22.02, 22.03, 22.04, 22.05, 22.04, 22.05, 22.06, 22.07, 22.08, 22.09, 22.10, 22.11, 22.02, 22.03, 22.04, 22.05, 22.06, 22.07, 22.08, 22.09, 22.10, 22.11, 23.01, 23.02, 23.03, 23.04, 23.05, 23.06, 23.07, 23.08, 23.06, 23.07, 23.08, 23.09,												

	Individual	pool	Individual	spa			Appliance	es & other effic	iency meas	sures		,
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
23.10, 23.11, 23.12, 24.01, 24.02, 24.03, 24.04, 24.05, 24.06, 24.07, 24.08, 24.09, 24.10, 24.11, 25.01, 25.02, 25.03, 25.04, 25.05, 25.06												

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

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

	Thermal loads	
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
02.01	33	22
02.02	18	12
02.04	24	11
02.05	25	14
02.06	48	20
02.07	58	17
02.08	55	21
03.01	31	22
03.02	16	12
03.03	15	14
03.04	27	30
03.05	39	25
03.06	38	26

	Thermal loads				
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)			
03.07	36	17			
03.08	43	15			
03.09	56	15			
03.10	64	12			
03.11	45	12			
03.12	40	12			
03.13	52	20			
04.04	24	24			
04.05	16	23			
04.06	19	25			
08.07	20	25			
12.01	42	15			
12.02	23	10			
12.03	19	11			
12.13	60	16			
13.01	21	22			
13.02	15	19			
13.07	24	14			
13.08	35	12			
14.01	47	24			
14.08	50	13			
14.12	46	15			
15.01	39	29			
21.02	16	18			
23.01	42	23			
23.02	20	9			
23.03	22	9			
	Thermal loads				
----------------------------	--	--	--	--	--
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)			
23.08	44	13			
23.09	42	10			
24.01	44	26			
24.02	11	11			
24.03	48	15			
24.05	22	14			
24.06	25	17			
24.07	45	18			
24.08	50	17			
24.09	56	10			
24.10	40	32			
24.11	31	10			
25.01	56	28			
25.02	27	17			
25.03	31	14			
25.05	33	17			
25.06	51	18			
25.08	46	15			
25.09	24	16			
14.07, 25.04	32	14			
09.01, 10.01, 11.01	34	15			
09.13, 10.13, 11.13	57	16			
19.02, 20.02, 22.02	16	8			
20.01, 21.01, 22.01	39	23			
20.05, 22.05, 23.05	19	18			
20.08, 21.08, 22.08	41	14			
04.07, 05.07, 06.07, 07.07	20	15			

		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
09.07, 10.07, 11.07, 12.07	21	
09.08, 10.08, 11.08, 12.08	38	12
09.09, 10.09, 11.09, 12.09	44	11
16.01, 17.01, 18.01, 19.01	39	24
19.09, 20.09, 21.09, 22.09	39	10
20.07, 21.07, 22.07, 23.07	28	13
04.01, 05.01, 06.01, 07.01, 08.01	34	16
04.08, 05.08, 06.08, 07.08, 08.08	37	13
04.09, 05.09, 06.09, 07.09, 08.09	42	12
04.10, 05.10, 06.10, 07.10, 08.10	33	11
04.11, 05.11, 06.11, 07.11, 08.11	49	9
04.13, 05.13, 06.13, 07.13, 08.13	56	16
05.04, 06.04, 07.04, 08.04, 09.04	25	23
05.05, 06.05, 07.05, 08.05, 09.05	17	20
05.06, 06.06, 07.06, 08.06, 09.06	20	22
09.10, 10.10, 11.10, 12.10, 13.09	35	
09.11, 10.11, 11.11, 12.11, 13.10	51	9
10.04, 11.04, 12.04, 13.04, 14.04	26	21
10.06, 11.06, 12.06, 13.06, 14.06	21	21
14.02, 15.02, 16.02, 17.02, 18.02	15	9
14.09, 15.09, 16.09, 17.09, 18.09	38	10
14.10, 15.10, 16.10, 17.10, 18.10	52	9
15.05, 16.05, 17.05, 18.05, 19.05	18	18
15.06, 16.06, 17.06, 18.06, 19.06	22	20
15.08, 16.08, 17.08, 18.08, 19.08	40	14
19.10, 20.10, 21.10, 22.10, 23.10	53	9
20.06, 21.06, 22.06, 23.06, 24.04	22	19

		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
02.03, 15.07, 16.07, 17.07, 18.07, 19.07	27	13
04.12, 05.12, 06.12, 07.12, 08.12, 11.12	28	10
10.05, 11.05, 12.05, 13.05, 14.05, 21.05	18	19
14.11, 15.11, 16.11, 17.11, 18.11, 19.11	30	10
04.02, 05.02, 06.02, 07.02, 08.02, 09.02, 10.02, 11.02	18	10
04.03, 05.03, 06.03, 07.03, 08.03, 09.03, 10.03, 11.03	17	11
09.12, 10.12, 12.12, 13.11, 20.11, 21.11, 22.11, 23.11	29	10
15.04, 16.04, 17.04, 18.04, 19.04, 20.04, 21.04, 22.04, 23.04	27	20
15.12, 16.12, 17.12, 18.12, 19.12, 20.12, 21.12, 22.12, 23.12	25	15
All other dwellings	18	9

(b) Common areas and central systems/facilities

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

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

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

	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 ground to basement 2	ventilation supply only	carbon monoxide monitor + VSD fan	fluorescent	zoned switching with motion sensor	No
Car park basement 3 & 4	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	zoned switching with motion sensor	No
Lift car (No. 1)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No. 2)	-	-	light-emitting diode	connected to lift call button	No
Lift car (No. 3)	-	-	light-emitting diode	connected to lift call button	No
Storage	ventilation supply only	interlocked to light	fluorescent	manual on / manual off	No
Switch Room	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Garbage room	ventilation exhaust only	-	fluorescent	motion sensors	No
Fan Room	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Plant room	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Mail Room	ventilation supply only	none ie. continuous	compact fluorescent	manual on / manual off	No
Ground floor & basement lobby	ventilation supply only	none ie. continuous	compact fluorescent	zoned switching with motion sensor	No
Hallway level 1 to 24	ventilation supply only	none ie. continuous	compact fluorescent	zoned switching with motion sensor	No

Central energy systems	Туре	Specification
Central hot water system (No. 1)	gas-fired boiler	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm)
Lift (No. 1)	gearless traction with V V V F motor	Number of levels (including basement): 29
Lift (No. 2)	gearless traction with V V V F motor	Number of levels (including basement): 29
Lift (No. 3)	gearless traction with V V V F motor	Number of levels (including basement): 29

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

(b) Common areas and central systems/facilities

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

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

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 1434 square metres of common landscaped area on the site car washing in 0 car washing bays on the site

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.	~	v	~

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).



Efficient Living Pty Ltd ABN: 82 116 346 082 ACN: 116 346 082

13/13 Lagoon St, NARRABEEN NSW 2101

Parkview Group

DA Application for:

Australia Towers II – Tower D

To be built at:

1-7 Australia Avenue, Sydney Olympic Park, NSW 2127

BASIX Assessment

Issue No.	Description	Author	Date
No. 01	Draft assessment	TC/TMC	14/08/13
	Note this report replaces the original Basix and ABSA thermal simulation completed by Windtec		
No. 02	BASIX certification	TC/TMC	16/08/13
No. 03	Additional unit to top floor	MF	22/07/14



This report has been prepared by Efficient Living Pty Ltd on behalf of our client Parkview Group. Efficient Living prepares all reports in accordance with Basix thermal comfort protocol and is backed by professional indemnity insurance. This report takes into account our client's instructions and preferred building inclusions.

P. 9970 6181



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BERS MODEL SPECIFICATION	

ERS MODEL SPECIFICATION (Note: Proxies used in this table, refer to inclusions summary for accurate specification)

BASIX CERTIFICATE



INTRODUCTION

Efficient Living has investigated the estimated thermal comfort of the proposed development to be built at 1-7 Australia Avenue, 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 Parkview Group. For further details, refer to the inclusions summary and thermal comfort results.

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% for 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 weather 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 (mega joules) 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 and the cook top, oven, and clothes drying facilities.



BASIX Inclusions – Australia Tower D

Australia Tower D has reached the targets as set for new dwellings in NSW.

The inclusions as outlined in the table below have been incorporated in each unit to allow them to reach their

environmental sustainability targets.

Construction genera	ıl									
Glazing	Curtain walls:									
	Fixed pane with three awning panels (vision panel 3007): U-value 4.7 & SHGC 0.52									
	Large fixed panel (vision panel 3005): U-value 3.7 & SHGC 0.61									
	Small fixed panel (vision panel 3200): U-value 4.5 & SHGC 0.56									
	Traditional sliding windows and doors:									
	U-value 6.95 & SHGC 0.72									
Roof / ceiling	Roof: Concrete slab – medium colour									
insulation										
	Plasterboard ceiling – R2.0 insulation to top floor units and									
	R2.0 to those areas with exposed balcony over.									
	No insulation to other units									
Wall / floor insulation	External Wall: Spandrel panel – R1.7 total construction									
	Small sections of 250mm Hebel, un-insulated as per plans									
	Internal walls within units: Plasterboard on studs - no insulation									
	Inter-tenancy walls: 250mm hebel - no insulation									
	Floor: Concrete – R1.0 insulation to subfloor unit D03.11									
	No insulation to other units									
BASIX Water inclusi	ons – Score 48/40									
Fixtures	Showerheads: 3 star (>7.5 but <=9.0 L/min) High flow									
(within units)	Toilets: 3 star									
	Kitchen taps: 3 star									
	Bathroom taps: 3 star									
Common area	Showerheads: 3 star (>7.5 but <=9.0 L/min) High flow									
fixtures	Toilets: 3 star									
	Bathroom taps: 3 star									
Appliances	Dishwashers: 2 Star									
(within units)										
Reticulated	Connected to: Irrigation of landscaping & all toilets									
alternative water										
supply										
Private pool	36kL pool to unit D30.01 & D30.04 with a pool cover									



sions – Score Pass 20/20						
Central gas-fired boiler with R1.0 (~38mm) insulation to ringmain and supply risers						
All lifts to have gearless traction with VVVF motor.						
Gas cooktop & electric oven						
Dishwashers: 3.5 star						
Clothes dryer: 2.0 star						
Gas heating to pool with a pool timer – unit D30.01 & D30.04						
All units to have individual single phase reverse cycle air conditioning:						
Heating: 1 Phase air-conditioning – 2.5 Stars (new rating)						
Cooling: 1 Phase air-conditioning – 2.5 Stars (new rating)						
Fluorescent or LED lighting, to be provided throughout						
Bathroom ventilation: Individual fan, ducted to roof or façade – interlocked to light						
Laundry ventilation: Individual fan, ducted to roof or façade – interlocked to light						
Kitchen ventilation: Individual fan, recirculating – manual switch on/off						
Car park area: fluorescent – zoned switching with motion sensor						
Lifts: compact fluorescent – connected to lift call button						
Garbage rooms: fluorescent – motion sensors						
Communal space: compact fluorescent – zoned switching with motion sensor						
Plant or service room: fluorescent – manual on / manual off						
Meter room: fluorescent – manual on / manual off						
Switch room: fluorescent – manual on / manual off						
Storage: fluorescent – manual on / manual off						
Mail room: compact fluorescent - manual on / manual off						
Change rooms/WC: compact fluorescent – zoned switching with motion sensor						
Ground floor lobbies: compact fluorescent – zoned switching with motion sensor						
Hallways: compact fluorescent – zoned switching with motion sensor						
Car park area: Supply and exhaust air to ground, basement 1 & 2. Ventilation supply						
only to basement 3 & 4 - carbon monoxide monitor + VSD fan						
Garbage rooms: ventilation exhaust only – no efficiency measures						
Communal space: ventilation supply only – time clock or BMS controlled						
Plant or Service room: no mechanical ventilation						
Meter Room: no mechanical ventilation						
Switch room: no mechanical ventilation						
Storage: ventilation supply only - interlocked to light						
Mail room: ventilation supply only – continuous						
Change rooms/WC: ventilation supply only – time clock or BMS control						
Ground floor lobbies: ventilation supply only – continuous						
Hallways: ventilation supply only – continuous						



Australia Towers II – Tower D

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			Thermal p	performa	ance spec	ifications	Page 1 of 13		
Unit number	Number of Bedrooms	Floor a	area (M ²)	(M.	ct. loads I/M²/y)	Star	Window in	Window in	Thermal Comfort Upgrades
		Con.	Uncon.	Heat	Cool (Sens & Lat)		Bathroom	Kitchen	
D02.01	2	64	0	61	22	4.0	0	No	None
D02.02	2	75	0	49	21	4.5	0	No	None
D02.03	2	81	0	33	25	5.0	0	No	None
D02.04	2	86	0	55	18	4.5	0	No	None
D02.05	2	73	5	48	13	5.0	0	No	None
D03.01	2	86	0	39	19	5.0	0	No	None
D03.02	3	106	0	38	19	5.5	0	No	None
D03.03	1	52	0	46	26	4.5	0	No	None
D03.04	1	58	0	52	23	4.5	0	No	None
D03.05	1	50	7	46	25	4.5	1	No	None
D03.06	2	73	5	33	14	6.0	1	No	None
D03.07	1	58	0	58	20	4.0	0	No	None
D03.08	2	77	6	46	28	4.5	0	No	None
D03.09	1	52	0	66	30	3.5	0	No	None
D03.10	2	79	0	60	20	4.0	0	No	None
D03.11	2	69	0	62	18	4.0	0	No	R1.0 insulation to open floor
D03.12	2	74	5	66	15	4.0	0	No	None
D04.01	2	86	0	24	15	6.5	0	No	None
D04.02	3	106	0	21	17	7.0	0	No	None
D04.03	1	52	0	29	23	5.5	0	No	None
D04.04	1	58	0	32	20	5.5	0	No	None
D04.05	1	50	7	46	21	4.5	1	No	None
D04.06	2	73	5	36	12	6.0	1	No	None
D04.07	1	58	0	52	17	4.5	0	No	None
D04.08	2	83	0	38	20	5.5	0	No	None
D04.09	1	52	0	35	23	5.5	0	No	None
D04.10	2	79	0	28	18	6.0	0	No	None
D04.11	2	69	0	59	15	4.5	0	No	None
D04.12	2	74	5	36	13	6.0	0	No	None



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			Thermal p	perform	ance spec	ifications	Page 2 of 13		
Unit	Number of	Floor a	area (M ²)		ct. loads J/M²/y)	Star	Window	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	······································
D05.01	2	86	0	24	15	6.5	0	No	None
D05.02	3	106	0	21	17	7.0	0	No	None
D05.03	1	52	0	29	23	5.5	0	No	None
D05.04	1	58	0	32	20	5.5	0	No	None
D05.05	1	50	7	46	21	4.5	1	No	None
D05.06	2	73	5	36	12	6.0	1	No	None
D05.07	1	58	0	52	17	4.5	0	No	None
D05.08	2	83	0	38	20	5.5	0	No	None
D05.09	1	52	0	35	23	5.5	0	No	None
D05.10	2	79	0	28	18	6.0	0	No	None
D05.11	2	69	0	59	15	4.5	0	No	None
D05.12	2	74	5	36	13	6.0	0	No	None
D06.01	2	86	0	24	15	6.5	0	No	None
D06.02	3	106	0	21	17	7.0	0	No	None
D06.03	1	52	0	29	23	5.5	0	No	None
D06.04	1	58	0	32	20	5.5	0	No	None
D06.05	1	50	7	46	21	4.5	1	No	None
D06.06	2	73	5	36	12	6.0	1	No	None
D06.07	1	58	0	52	17	4.5	0	No	None
D06.08	2	83	0	38	20	5.5	0	No	None
D06.09	1	52	0	35	23	5.5	0	No	None
D06.10	2	79	0	28	18	6.0	0	No	None
D06.11	2	69	0	59	15	4.5	0	No	None
D06.12	2	74	5	36	13	6.0	0	No	None



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			Thermal p	performation	ance spec	ifications	Page 3 of 13		
Unit	Number of	Floor a	area (M ²)		ct. loads J/M²/y)	Star	Window in	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
D07.01	2	86	0	26	13	7.0	0	No	None
D07.02	3	106	0	22	15	7.0	0	No	None
D07.03	1	52	0	32	21	5.5	0	No	None
D07.04	1	58	0	35	18	5.5	0	No	None
D07.05	1	50	7	49	19	4.5	1	No	None
D07.06	2	73	5	38	11	6.0	1	No	None
D07.07	1	58	0	55	16	4.5	0	No	None
D07.08	2	83	0	40	17	5.5	0	No	None
D07.09	1	52	0	37	20	5.5	0	No	None
D07.10	2	79	0	30	17	6.0	0	No	None
D07.11	2	69	0	62	13	4.0	0	No	None
D07.12	2	74	5	38	13	5.5	0	No	None
D08.01	2	86	0	26	13	7.0	0	No	None
D08.02	3	106	0	22	15	7.0	0	No	None
D08.03	1	52	0	32	21	5.5	0	No	None
D08.04	1	58	0	35	18	5.5	0	No	None
D08.05	1	50	7	49	19	4.5	1	No	None
D08.06	2	73	5	38	11	6.0	1	No	None
D08.07	1	58	0	55	16	4.5	0	No	None
D08.08	2	83	0	40	17	5.5	0	No	None
D08.09	1	52	0	37	20	5.5	0	No	None
D08.10	2	79	0	30	17	6.0	0	No	None
D08.11	2	69	0	62	13	4.0	0	No	None
D08.12	2	74	5	38	13	5.5	0	No	None



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Unit	Number of	Floor a	area (M ²)		ct. loads J/M²/y)	Star	Window	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	·····
D09.01	2	86	0	26	13	7.0	0	No	None
D09.02	3	106	0	22	15	7.0	0	No	None
D09.03	1	52	0	32	21	5.5	0	No	None
D09.04	1	58	0	35	18	5.5	0	No	None
D09.05	1	50	7	49	19	4.5	1	No	None
D09.06	2	73	5	38	11	6.0	1	No	None
D09.07	1	58	0	55	16	4.5	0	No	None
D09.08	2	83	0	40	17	5.5	0	No	None
D09.09	1	52	0	37	20	5.5	0	No	None
D09.10	2	79	0	30	17	6.0	0	No	None
D09.11	2	69	0	62	13	4.0	0	No	None
D09.12	2	74	5	38	13	5.5	0	No	None
D10.01	2	86	0	26	13	7.0	0	No	None
D10.02	3	106	0	22	15	7.0	0	No	None
D10.03	1	52	0	32	21	5.5	0	No	None
D10.04	1	58	0	35	18	5.5	0	No	None
D10.05	1	50	7	49	19	4.5	1	No	None
D10.06	2	73	5	38	11	6.0	1	No	None
D10.07	1	58	0	55	16	4.5	0	No	None
D10.08	2	83	0	40	17	5.5	0	No	None
D10.09	1	52	0	37	20	5.5	0	No	None
D10.10	2	79	0	30	17	6.0	0	No	None
D10.11	2	69	0	62	13	4.0	0	No	None
D10.12	2	74	5	38	13	5.5	0	No	None



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Unit	Number of	Floor a	area (M ²)		ct. loads J/M²/y)	Star	Window	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
D11.01	2	86	0	28	14	6.5	0	No	None
D11.02	3	106	0	23	21	6.5	0	No	None
D11.03	1	52	0	31	17	6.0	0	No	None
D11.04	1	58	0	37	15	5.5	0	No	None
D11.05	1	50	7	49	21	4.5	1	No	None
D11.06	2	73	5	39	12	5.5	1	No	None
D11.07	1	58	0	54	13	4.5	0	No	None
D11.08	2	83	0	42	17	5.0	0	No	None
D11.09	1	52	0	37	17	5.5	0	No	None
D11.10	2	79	0	32	19	5.5	0	No	None
D11.11	2	69	0	65	15	4.0	0	No	None
D11.12	2	74	5	39	14	5.5	0	No	None
D12.01	2	86	0	28	14	6.5	0	No	None
D12.02	3	106	0	23	21	6.5	0	No	None
D12.03	1	52	0	31	17	6.0	0	No	None
D12.04	1	58	0	37	15	5.5	0	No	None
D12.05	1	50	7	49	21	4.5	1	No	None
D12.06	2	73	5	39	12	5.5	1	No	None
D12.07	1	58	0	54	13	4.5	0	No	None
D12.08	2	83	0	42	17	5.0	0	No	None
D12.09	1	52	0	37	17	5.5	0	No	None
D12.10	2	79	0	32	19	5.5	0	No	None
D12.11	2	69	0	65	15	4.0	0	No	None
D12.12	2	74	5	39	14	5.5	0	No	None



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Unit	Number of	Floor a	area (M ²)		ct. loads J/M²/y)	Star	Window in	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
D13.01	2	86	0	28	14	6.5	0	No	None
D13.02	3	106	0	23	21	6.5	0	No	None
D13.03	1	52	0	31	17	6.0	0	No	None
D13.04	1	58	0	37	15	5.5	0	No	None
D13.05	1	50	7	49	21	4.5	1	No	None
D13.06	2	73	5	39	12	5.5	1	No	None
D13.07	1	58	0	54	13	4.5	0	No	None
D13.08	2	83	0	42	17	5.0	0	No	None
D13.09	1	52	0	37	17	5.5	0	No	None
D13.10	2	79	0	32	19	5.5	0	No	None
D13.11	2	69	0	65	15	4.0	0	No	None
D13.12	2	74	5	39	14	5.5	0	No	None
D14.01	2	86	0	28	14	6.5	0	No	None
D14.02	3	106	0	23	21	6.5	0	No	None
D14.03	1	52	0	31	17	6.0	0	No	None
D14.04	1	58	0	37	15	5.5	0	No	None
D14.05	1	50	7	49	21	4.5	1	No	None
D14.06	2	73	5	39	12	5.5	1	No	None
D14.07	1	58	0	54	13	4.5	0	No	None
D14.08	2	83	0	42	17	5.0	0	No	None
D14.09	1	52	0	37	17	5.5	0	No	None
D14.10	2	79	0	32	19	5.5	0	No	None
D14.11	2	69	0	65	15	4.0	0	No	None
D14.12	2	74	5	39	14	5.5	0	No	None



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			Thermal p	perform	ance spec	ifications			Page 7 of 13
Unit	Number of	Floor a	area (M ²)		Predict. loads (MJ/M ² /y)		Window	Window	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
D15.01	2	86	0	28	13	6.5	0	No	None
D15.02	3	106	0	24	20	6.5	0	No	None
D15.03	1	52	0	33	16	6.0	0	No	None
D15.04	1	58	0	38	15	5.5	0	No	None
D15.05	1	50	7	51	19	4.5	1	No	None
D15.06	2	73	5	40	12	5.5	1	No	None
D15.07	1	58	0	56	13	4.5	0	No	None
D15.08	2	83	0	43	16	5.0	0	No	None
D15.09	1	52	0	38	17	5.5	0	No	None
D15.10	2	79	0	33	19	5.5	0	No	None
D15.11	2	69	0	66	14	4.0	0	No	None
D15.12	2	74	5	40	13	5.5	0	No	None
D16.01	2	86	0	28	13	6.5	0	No	None
D16.02	3	106	0	24	20	6.5	0	No	None
D16.03	1	52	0	33	16	6.0	0	No	None
D16.04	1	58	0	38	15	5.5	0	No	None
D16.05	1	50	7	51	19	4.5	1	No	None
D16.06	2	73	5	40	12	5.5	1	No	None
D16.07	1	58	0	56	13	4.5	0	No	None
D16.08	2	83	0	43	16	5.0	0	No	None
D16.09	1	52	0	38	17	5.5	0	No	None
D16.10	2	79	0	33	19	5.5	0	No	None
D16.11	2	69	0	66	14	4.0	0	No	None
D16.12	2	74	5	40	13	5.5	0	No	None



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Unit	Number of Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star	Window	Window in	Thermal Comfort Upgrades	
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
D17.01	2	86	0	28	13	6.5	0	No	None
D17.02	3	106	0	24	20	6.5	0	No	None
D17.03	1	52	0	33	16	6.0	0	No	None
D17.04	1	58	0	38	15	5.5	0	No	None
D17.05	1	50	7	51	19	4.5	1	No	None
D17.06	2	73	5	40	12	5.5	1	No	None
D17.07	1	58	0	56	13	4.5	0	No	None
D17.08	2	83	0	43	16	5.0	0	No	None
D17.09	1	52	0	38	17	5.5	0	No	None
D17.10	2	79	0	33	19	5.5	0	No	None
D17.11	2	69	0	66	14	4.0	0	No	None
D17.12	2	74	5	40	13	5.5	0	No	None
D18.01	2	86	0	28	13	6.5	0	No	None
D18.02	3	106	0	24	20	6.5	0	No	None
D18.03	1	52	0	33	16	6.0	0	No	None
D18.04	1	58	0	38	15	5.5	0	No	None
D18.05	1	50	7	51	19	4.5	1	No	None
D18.06	2	73	5	40	12	5.5	1	No	None
D18.07	1	58	0	56	13	4.5	0	No	None
D18.08	2	83	0	43	16	5.0	0	No	None
D18.09	1	52	0	38	17	5.5	0	No	None
D18.10	2	79	0	33	19	5.5	0	No	None
D18.11	2	69	0	66	14	4.0	0	No	None
D18.12	2	74	5	40	13	5.5	0	No	None



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Unit	Unit Number of Floor area (M ²)		area (M ²)	Predict. loads (MJ/M ² /y)		Star	Window in	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	·····
D19.01	2	86	0	28	13	6.5	0	No	None
D19.02	3	106	0	24	20	6.5	0	No	None
D19.03	1	52	0	33	16	6.0	0	No	None
D19.04	1	58	0	38	15	5.5	0	No	None
D19.05	1	50	7	51	19	4.5	1	No	None
D19.06	2	73	5	40	12	5.5	1	No	None
D19.07	1	58	0	56	13	4.5	0	No	None
D19.08	2	83	0	43	16	5.0	0	No	None
D19.09	1	52	0	38	17	5.5	0	No	None
D19.10	2	79	0	33	19	5.5	0	No	None
D19.11	2	69	0	66	14	4.0	0	No	None
D19.12	2	74	5	40	13	5.5	0	No	None
D20.01	2	86	0	28	12	6.5	0	No	None
D20.02	3	106	0	25	18	6.5	0	No	None
D20.03	1	52	0	34	17	5.5	0	No	None
D20.04	1	58	0	38	16	5.5	0	No	None
D20.05	1	50	7	52	19	4.5	1	No	None
D20.06	2	73	5	42	14	5.5	1	No	None
D20.07	1	58	0	57	13	4.5	0	No	None
D20.08	2	83	0	41	14	5.5	0	No	None
D20.09	1	52	0	40	19	5.0	0	No	None
D20.10	2	79	0	32	16	6.0	0	No	None
D20.11	2	69	0	66	14	4.0	0	No	None
D20.12	2	74	5	43	16	5.0	0	No	None



Australia Towers II – Tower D

1-7 Australia Avenue, Sydney Olympic Park, NSW 2127



Certificat	e # 1473050	00			Issue	d: 22/07/1	3 Ac	creditation	# VIC/BDAV/12/1473
			Thermal p	perform	ance spec	ifications			Page 10 of 13
Unit	Number of	Floor a	area (M ²)		ict. loads IJ/M ² /y) Star		Window	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
D21.01	2	86	0	28	12	6.5	0	No	None
D21.02	3	106	0	25	18	6.5	0	No	None
D21.03	1	52	0	34	17	5.5	0	No	None
D21.04	1	58	0	38	16	5.5	0	No	None
D21.05	1	50	7	52	19	4.5	1	No	None
D21.06	2	73	5	42	14	5.5	1	No	None
D21.07	1	58	0	57	13	4.5	0	No	None
D21.08	2	83	0	41	14	5.5	0	No	None
D21.09	1	52	0	40	19	5.0	0	No	None
D21.10	2	79	0	32	16	6.0	0	No	None
D21.11	2	69	0	66	14	4.0	0	No	None
D21.12	2	74	5	43	16	5.0	0	No	None
D22.01	2	86	0	28	12	6.5	0	No	None
D22.02	3	106	0	25	18	6.5	0	No	None
D22.03	1	52	0	34	17	5.5	0	No	None
D22.04	1	58	0	38	16	5.5	0	No	None
D22.05	1	50	7	52	19	4.5	1	No	None
D22.06	2	73	5	42	14	5.5	1	No	None
D22.07	1	58	0	57	13	4.5	0	No	None
D22.08	2	83	0	41	14	5.5	0	No	None
D22.09	1	52	0	40	19	5.0	0	No	None
D22.10	2	79	0	32	16	6.0	0	No	None
D22.11	2	69	0	66	14	4.0	0	No	None
D22.12	2	74	5	43	16	5.0	0	No	None



Australia Towers II – Tower D

1-7 Australia Avenue, Sydney Olympic Park, NSW 2127



Certificat	e # 1473050	00			Issue	d: 22/07/1	# VIC/BDAV/12/1473		
			Thermal p	Page 11 of 13					
Unit	Number of	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star	Window	Window in	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
D23.01	2	86	0	28	12	6.5	0	No	None
D23.02	3	106	0	25	18	6.5	0	No	None
D23.03	1	52	0	34	17	5.5	0	No	None
D23.04	1	58	0	38	16	5.5	0	No	None
D23.05	1	50	7	52	19	4.5	1	No	None
D23.06	2	73	5	42	14	5.5	1	No	None
D23.07	1	58	0	57	13	4.5	0	No	None
D23.08	2	83	0	41	14	5.5	0	No	None
D23.09	1	52	0	40	19	5.0	0	No	None
D23.10	2	79	0	32	16	6.0	0	No	None
D23.11	2	69	0	66	14	4.0	0	No	None
D23.12	2	74	5	43	16	5.0	0	No	None
D24.01	2	86	0	28	13	6.5	0	No	None
D24.02	3	106	0	24	14	7.0	0	No	None
D24.03	1	52	0	34	17	5.5	0	No	None
D24.04	1	58	0	38	16	5.5	0	No	None
D24.05	1	50	7	52	19	4.5	1	No	None
D24.06	2	73	5	42	14	5.5	1	No	None
D24.07	1	58	0	57	13	4.5	0	No	None
D24.08	3	142	0	41	18	5.0	0	Yes	None
D24.09	2	79	0	33	16	6.0	0	No	None
D24.10	2	70	0	65	13	4.0	0	No	None
D24.11	2	74	5	44	13	5.5	1	No	None



Australia Towers II – Tower D

1-7 Australia Avenue, Sydney Olympic Park, NSW 2127



Certificat	e # 1473050	00			Issue	d: 22/07/1	3 Ac	creditation	# VIC/BDAV/12/1473
			Thermal p	performation	ance spec	ifications			Page 12 of 13
Unit Number of Floor area (MI)			Predict. loads (MJ/M ² /y)		Window in	Window in	Thermal Comfort Upgrades		
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
D25.01	4	156	0	44	18	5.0	0	No	None
D25.03	1	52	0	40	21	5.0	0	No	None
D25.04	1	58	0	62	18	4.5	0	No	None
D25.05	1	50	7	63	18	4.0	1	No	None
D25.06	2	73	5	42	14	5.5	1	No	None
D25.07	1	58	0	57	13	4.5	0	No	None
D25.08	3	142	0	41	18	5.0	0	Yes	None
D25.09	2	79	0	33	16	6.0	0	No	None
D25.10	2	69	0	31	18	6.0	0	No	None
D25.11	2	80	0	58	16	4.5	0	No	None
D26.01	4	156	0	43	18	5.0	0	No	None
D26.03	2	84	0	58	21	4.0	0	No	None
D26.04	2	93	0	44	20	5.0	0	Yes	None
D26.05	2	73	5	42	14	5.5	1	No	None
D26.06	1	58	0	57	13	4.5	0	No	None
D26.07	3	142	0	41	18	5.0	0	Yes	None
D26.08	2	79	0	33	16	6.0	0	No	None
D26.09	2	69	0	31	18	6.0	0	No	None
D26.10	2	80	0	38	16	6.0	0	No	None
D27.01	4	156	0	43	18	5.0	0	No	None
D27.03	2	84	0	41	22	5.0	0	No	None
D27.04	2	93	0	38	21	5.0	0	Yes	None
D27.05	2	73	5	44	13	5.5	1	No	None
D27.06	1	58	0	61	13	4.5	0	No	None
D27.07	3	142	0	42	17	5.0	0	Yes	None
D27.08	2	79	0	33	16	6.0	0	No	None
D27.09	2	69	0	31	18	6.0	0	No	None
D27.10	2	80	0	38	16	6.0	0	No	None



Australia Towers II – Tower D

1-7 Australia Avenue, Sydney Olympic Park, NSW 2127



Certificat	e # 1473050	00			Issue	d: 22/07/1	3 Ac	creditation	# VIC/BDAV/12/1473
			Thermal p	performation	ance spec	ifications		Page 13 of 13	
Unit	Number of	Floor area (M ²)		Predict. loads (MJ/M ² /y)		Star	Window	Window	Thermal Comfort Upgrades
number	Bedrooms	Con.	Uncon.	Heat	Cool (Sens & Lat)	Rating	Bathroom	Kitchen	
D28.01	4	165	0	52	19	4.5	0	Yes	None
D28.02	3	110	0	45	17	5.0	0	No	None
D28.03	3	125	0	58	15	4.5	0	No	None
D28.04	4	165	0	66	20	4.0	0	Yes	None
D28.05	2	79	0	38	18	5.5	0	No	None
D28.06	2	69	0	33	17	6.0	0	No	None
D28.07	2	80	0	38	16	6.0	0	No	None
D29.01	4	165	0	46	19	5.0	0	Yes	None
D29.02	3	110	0	40	16	5.5	0	No	None
D29.03	3	125	0	46	16	5.0	0	No	None
D29.04	4	165	0	66	20	4.0	0	Yes	None
D29.05	2	79	0	38	18	5.5	0	No	None
D29.06	2	69	0	33	17	6.0	0	No	None
D29.07	2	80	0	38	16	6.0	0	No	None
D30.01	4	232	4	39	31	4.5	1	No	None
D30.02	3	110	0	32	18	6.0	0	No	None
D30.03	3	125	0	51	16	4.5	0	No	None
D30.04	4	231	6	65	36	3.5	1	No	None
D30.05	2	79	0	40	18	5.5	0	No	None
D30.06	2	69	0	34	17	5.5	0	No	None
D30.07	2	80	0	40	16	6.0	0	No	None
D31.01	3	114	0	53	44	3.5	0	No	None



NatHERS Certificate New Dwelling



5.5 Stars

Simulation Software Software Name Software Version Engine Version

Simulation Details

Project Name Date Location Climate file Adjusted Star Rating Conditioned Area Unconditioned Area Adjusted Cooling Adjusted Heating Adjusted Total

Dwelling Address

DP Number Unit Number Lot Number House Number Street Name Development Name Suburb

Client Details

Name Phone Email Postal Address Street Details

Assessor Details

Name Phone Email Postal Address Street Details BERS Pro 4.2 Release 110811/A CHENATH V2.13

0.00 m²

22.6 MJ/m²

29.3 MJ/m²

51.9 MJ/m²

1134933

2

K8-40 unit D05.03 Le	evel 4 Mirror Mirror_1
8/11/2013	
HOMEBUSH BAY P	C 2127
climat56.TXT	
5.5 Stars	
52.37 m ²	

HOUSE Energy	Rating Certii	ficate Number <u>14730500</u>
single-dwelling ra	ting	
multi-unit develop	ment (attach listing of ratings) the average across the entire development	heating <u>41</u> MJ/m ² cooling <u>17</u> MJ/m ²
Recessed downlights confi	rmation: Rated with	Rated without
Assessor Name/Number	Tracey Cools VIC/BDAV/12	2/1473
Assessor Signature	Acoro.	Date 22/7/14

1-7 Australia Avenue Australia Towers II - Building D Sydney Olympic Park NSW 2127

Parkview Construction Pty Ltd (02) 9506 1500 Fax (02) 9506 1599 Jessica.Vranjes@pview.com.au Suite 3, 2 Wentworth Park Rd, Glebe, NSW 2037 Suite 3, 2 Wentworth Park Rd, Glebe, NSW 2037

Tracey Cools 02 9970 6181 Fax 02 9944 0293 admin@efficientliving.com.au

13/13 Lagoon Street, Narrabeen NSW 2101

Signed by the Assessor.....

.....Date....22./...7./..2014.

Tilted roof windows with blinds cannot be modelled using this version of BERSPro. All windows are modelled with Holland Blinds for regulatory purposes.

Project K8-40 unit D05.03 Level 4 Mirror Mirror Run 1 HOMEBUSH BAY PC 2127 Lat -33.90 Long 151.10 Climate File climat56.TXT Summary Conditioned Area 52.4 m² Unconditioned Area 0.0 m² Total Floor Area 52.4 m² Total Glazed Area 23.4 m² Total External Solid door Area 1.9 m² Glass to Floor Area 44.6 % Gross External Wall Area 86.5 m² Net External Wall Area 61.2 m² Window 14.6 m² STG-05-055a Stegbar Uval 6.95 SHGC 0.72 Glass 5mm Clear Frame Stegbar: Aluminium Sliding Door - Single Glazed 2.1 m² BRD-04-043a Bradnams Windows & Doors Uval 4.78 SHGC 0.53 Glass 3mm Clear/15mm Air Gap/4mm Clear Frame Bradnam's: Aluminium Bi-fold Door - Double Glazed 6.6 m² STG-05-009a Stegbar Uval 3.76 SHGC 0.61 Glass 3mm Clear/6mm Air Gap/4mm Clear Frame Stegbar: Aluminium Awning Window - Double Glazed External Wall 4.2 m² Metal Clad Cavity Panel Bulk Insulation R 1.4 57.1 m² Autoclaved Aerated Concrete to neighbour No Insulation Internal Wall 25.1 $\ensuremath{\text{m}}^2$ Cavity Panel 70mm gap No Insulation External Floor $9.7\ \text{m}^2$ Concrete Slab, Unit Below Carpet 10mm No Insulation $6.1\ \text{m}^2$ Concrete Slab, Unit Below Ceramic Tiles 8mm No Insulation 36.6 $\rm m^2$ Concrete Slab, Unit Below ~80/20 Carpet 10mm/Ceramic No Insulation External Ceiling 52.4 $\ensuremath{\mathtt{m}}^2$ Plasterboard No Insulation Apartment above Roof (Horizontal area) 52.4 m^2 Concrete No Insulation, Only an Air Gap $0\,^\circ$ slope ~ Skillion roof

Energy Rating Certificate Number 14730500
single-dwelling rating
multi-unit development (attach listing of ratings) If selected, data specified is the average across the entire development LT MJ/m ² cooling 17 MJ/m ²
Recessed downlights confirmation: Rated with Rated without
Assessor Name/Number Tracey Cools VIC/BDAV/12/1473
Assessor Signature Date 22/7/14

BASIX[°]Certificate

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

Multi Dwelling

Certificate number: 368640M_05

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 29/06/2009 published by Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

This certificate is a revision of certificate number 368640M lodged with the consent authority or certifier on 06 July 2011 with application MP10_0027.

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

Director-General Date of issue: Tuesday, 22 July 2014 To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary	
Project name	Australia Towers, Sydney Olympic Park_05
Street address	1 Australia Avenue Homebush Bay 2127
Local Government Area	Auburn Council
Plan type and plan number	deposited 1134933
Lot no.	2
Section no.	-
No. of residential flat buildings	1
No. of units in residential flat buildings	318
No. of multi-dwelling houses	0
No. of single dwelling houses	0
Project score	
Water	V 48 Target 40
Thermal Comfort	V Pass Target Pass
Energy	V 20 Target 20

Water score comprises:

- Sydney Olympic Park Authority reticulated alternative water: 12.5
- Other water efficiency commitments: 35.5

Certificate Prepared by

Name / Company Name: Efficient Living

ABN (if applicable): 82 116 346 082

Description of project

Project address

Project name	Australia Towers, Sydney Olympic Park_05
Street address	1 Australia Avenue Homebush Bay 2127
Local Government Area	Auburn Council
Plan type and plan number	deposited 1134933
Lot no.	2
Section no.	-
Project type	
No. of residential flat buildings	1
No. of units in residential flat buildings	318
No. of multi-dwelling houses	0
No. of single dwelling houses	0
Site details	
Site area (m²)	10484
Roof area (m²)	590
Non-residential floor area (m ²)	877
Residential car spaces	392
Non-residential car spaces	24

Common area landscape		
Common area lawn (m ²)	1201	
Common area garden (m ²)	1155	
Area of indigenous or low water use species (m ²)	-	
Assessor details		
Assessor number	BDAV/12/1473	
Certificate number	14730500	
Climate zone	56	
Project score		
Water	48	Target 40
Thermal Comfort	V Pass	Target Pass
Energy	v 20	Target 20

Water score comprises:

• Sydney Olympic Park Authority reticulated alternative water: 12.5

• Other water efficiency commitments: 35.5

Description of project

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

Residential flat buildings - Tower D, 318 dwellings, 31 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
02.01	2	64.0	0.0	0	0	02.02	2	75.0	0.0	0	0	02.03	2	81.0	0.0	0	0	02.04	2	86.0	0.0	0	0
02.05	2	73.0	5.0	0	0	03.01	2	86.0	0.0	0	0	03.02	3	106.0	0.0	0	0	03.03	1	52.0	0.0	0	0
03.04	1	58.0	0.0	0	0	03.05	1	50.0	7.0	0	0	03.06	2	73.0	5.0	0	0	03.07	1	58.0	0.0	0	0
03.08	2	77.0	6.0	0	0	03.09	1	52.0	0.0	0	0	03.10	2	79.0	0.0	0	0	03.11	2	69.0	0.0	0	0
03.12	2	74.0	5.0	0	0	04.01	2	86.0	0.0	0	0	04.02	3	106.0	0.0	0	0	04.03	1	52.0	0.0	0	0
04.04	1	58.0	0.0	0	0	04.05	1	50.0	7.0	0	0	04.06	2	73.0	5.0	0	0	04.07	1	58.0	0.0	0	0
04.08	2	83.0	0.0	0	0	04.09	1	52.0	0.0	0	0	04.10	2	79.0	0.0	0	0	04.11	2	69.0	0.0	0	0
04.12	2	74.0	5.0	0	0	05.01	2	86.0	0.0	0	0	05.02	3	106.0	0.0	0	0	05.03	1	52.0	0.0	0	0
05.04	1	58.0	0.0	0	0	05.05	1	50.0	7.0	0	0	05.06	2	73.0	5.0	0	0	05.07	1	58.0	0.0	0	0
05.08	2	83.0	0.0	0	0	05.09	1	52.0	0.0	0	0	05.10	2	79.0	0.0	0	0	05.11	2	69.0	0.0	0	0
05.12	2	74.0	5.0	0	0	06.01	2	86.0	0.0	0	0	06.02	3	106.0	0.0	0	0	06.03	1	52.0	0.0	0	0
06.04	1	58.0	0.0	0	0	06.05	1	50.0	7.0	0	0	06.06	2	73.0	5.0	0	0	06.07	1	58.0	0.0	0	0
06.08	2	83.0	0.0	0	0	06.09	1	52.0	0.0	0	0	06.10	2	79.0	0.0	0	0	06.11	2	69.0	0.0	0	0
06.12	2	74.0	5.0	0	0	07.01	2	86.0	0.0	0	0	07.02	3	106.0	0.0	0	0	07.03	1	52.0	0.0	0	0
07.04	1	58.0	0.0	0	0	07.05	1	50.0	7.0	0	0	07.06	2	73.0	5.0	0	0	07.07	1	58.0	0.0	0	0
07.08	2	83.0	0.0	0	0	07.09	1	52.0	0.0	0	0	07.10	2	79.0	0.0	0	0	07.11	2	69.0	0.0	0	0
07.12	2	74.0	5.0	0	0	08.01	2	86.0	0.0	0	0	08.02	3	106.0	0.0	0	0	08.03	1	52.0	0.0	0	0
08.04	1	58.0	0.0	0	0	08.05	1	50.0	7.0	0	0	08.06	2	73.0	5.0	0	0	08.07	1	58.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
08.08	2	83.0	0.0	0	0	08.09	1	52.0	0.0	0	0	08.10	2	79.0	0.0	0	0	08.11	2	69.0	0.0	0	0
08.12	2	74.0	5.0	0	0	09.01	2	86.0	6.0	0	0	09.02	3	106.0	0.0	0	0	09.03	1	52.0	0.0	0	0
09.04	1	58.0	0.0	0	0	09.05	1	50.0	7.0	0	0	09.06	2	73.0	5.0	0	0	09.07	1	58.0	0.0	0	0
09.08	2	83.0	0.0	0	0	09.09	1	52.0	0.0	0	0	09.10	2	79.0	0.0	0	0	09.11	2	69.0	0.0	0	0
09.12	2	74.0	5.0	0	0	10.01	2	86.0	0.0	0	0	10.02	3	106.0	0.0	0	0	10.03	1	52.0	0.0	0	0
10.04	1	58.0	0.0	0	0	10.05	1	50.0	7.0	0	0	10.06	2	73.0	5.0	0	0	10.07	1	58.0	0.0	0	0
10.08	2	83.0	0.0	0	0	10.09	1	52.0	0.0	0	0	10.10	2	79.0	0.0	0	0	10.11	2	69.0	0.0	0	0
10.12	2	74.0	5.0	0	0	11.01	2	86.0	0.0	0	0	11.02	3	106.0	0.0	0	0	11.03	1	52.0	0.0	0	0
11.04	1	58.0	0.0	0	0	11.05	1	50.0	7.0	0	0	11.06	2	73.0	5.0	0	0	11.07	1	58.0	0.0	0	0
11.08	2	83.0	0.0	0	0	11.09	1	52.0	0.0	0	0	11.10	2	79.0	0.0	0	0	11.11	2	69.0	0.0	0	0
11.12	2	74.0	5.0	0	0	12.01	2	86.0	0.0	0	0	12.02	3	106.0	0.0	0	0	12.03	1	52.0	0.0	0	0
12.04	1	58.0	0.0	0	0	12.05	1	58.0	7.0	0	0	12.06	2	73.0	5.0	0	0	12.07	1	58.0	0.0	0	0
12.08	2	83.0	0.0	0	0	12.09	1	52.0	0.0	0	0	12.10	2	79.0	0.0	0	0	12.11	2	69.0	0.0	0	0
12.12	2	74.0	5.0	0	0	13.01	2	86.0	0.0	0	0	13.02	3	106.0	0.0	0	0	13.03	1	52.0	0.0	0	0
13.04	1	58.0	0.0	0	0	13.05	1	50.0	7.0	0	0	13.06	2	73.0	5.0	0	0	13.07	1	58.0	0.0	0	0
13.08	2	83.0	0.0	0	0	13.09	1	52.0	0.0	0	0	13.10	2	79.0	0.0	0	0	13.11	2	69.0	0.0	0	0
13.12	2	74.0	5.0	0	0	14.01	2	86.0	0.0	0	0	14.02	3	106.0	0.0	0	0	14.03	1	52.0	0.0	0	0
14.04	1	58.0	0.0	0	0	14.05	1	50.0	7.0	0	0	14.06	2	73.0	5.0	0	0	14.07	1	58.0	0.0	0	0
14.08	2	83.0	0.0	0	0	14.09	1	52.0	0.0	0	0	14.10	2	79.0	0.0	0	0	14.11	2	69.0	0.0	0	0
14.12	2	74.0	5.0	0	0	15.01	2	86.0	0.0	0	0	15.02	3	106.0	0.0	0	0	15.03	1	52.0	0.0	0	0
15.04	1	58.0	0.0	0	0	15.05	1	50.0	7.0	0	0	15.06	2	73.0	5.0	0	0	15.07	1	58.0	0.0	0	0
15.08	2	83.0	0.0	0	0	15.09	1	52.0	0.0	0	0	15.10	2	79.0	0.0	0	0	15.11	2	69.0	0.0	0	0
15.12	2	74.0	5.0	0	0	16.01	2	86.0	0.0	0	0	16.02	3	106.0	0.0	0	0	16.03	1	52.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
16.04	1	58.0	0.0	0	0	16.05	1	50.0	7.0	0	0	16.06	2	73.0	5.0	0	0	16.07	1	58.0	0.0	0	0
16.08	2	83.0	0.0	0	0	16.09	1	52.0	0.0	0	0	16.10	2	79.0	0.0	0	0	16.11	2	69.0	0.0	0	0
16.12	2	74.0	5.0	0	0	17.01	2	86.0	0.0	0	0	17.02	3	106.0	0.0	0	0	17.03	1	52.0	0.0	0	0
17.04	1	58.0	0.0	0	0	17.05	1	50.0	7.0	0	0	17.06	2	73.0	5.0	0	0	17.07	1	58.0	0.0	0	0
17.08	2	83.0	0.0	0	0	17.09	1	52.0	0.0	0	0	17.10	2	79.0	0.0	0	0	17.11	2	69.0	0.0	0	0
17.12	2	74.0	5.0	0	0	18.01	2	86.0	0.0	0	0	18.02	3	106.0	0.0	0	0	18.03	1	52.0	0.0	0	0
18.04	1	58.0	0.0	0	0	18.05	1	50.0	7.0	0	0	18.06	2	73.0	5.0	0	0	18.07	1	58.0	0.0	0	0
18.08	2	83.0	0.0	0	0	18.09	1	52.0	0.0	0	0	18.10	2	79.0	0.0	0	0	18.11	2	69.0	0.0	0	0
18.12	2	74.0	5.0	0	0	19.01	2	86.0	0.0	0	0	19.02	3	106.0	0.0	0	0	19.03	1	52.0	0.0	0	0
19.04	1	58.0	0.0	0	0	19.05	1	50.0	7.0	0	0	19.06	2	73.0	5.0	0	0	19.07	1	58.0	0.0	0	0
19.08	2	83.0	0.0	0	0	19.09	1	52.0	0.0	0	0	19.10	2	79.0	0.0	0	0	19.11	2	69.0	0.0	0	0
19.12	2	74.0	5.0	0	0	20.01	2	86.0	0.0	0	0	20.02	3	106.0	0.0	0	0	20.03	1	53.0	0.0	0	0
20.04	1	58.0	0.0	0	0	20.05	1	50.0	7.0	0	0	20.06	2	73.0	5.0	0	0	20.07	1	58.0	0.0	0	0
20.08	2	83.0	0.0	0	0	20.09	1	52.0	0.0	0	0	20.10	2	79.0	0.0	0	0	20.11	2	69.0	0.0	0	0
20.12	2	74.0	5.0	0	0	21.01	2	86.0	0.0	0	0	21.02	3	106.0	0.0	0	0	21.03	1	52.0	0.0	0	0
21.04	1	58.0	0.0	0	0	21.05	1	50.0	7.0	0	0	21.06	2	73.0	5.0	0	0	21.07	1	58.0	0.0	0	0
21.08	2	83.0	0.0	0	0	21.09	1	52.0	0.0	0	0	21.10	2	79.0	0.0	0	0	21.11	2	69.0	0.0	0	0
21.12	2	74.0	5.0	0	0	22.01	2	86.0	0.0	0	0	22.02	3	106.0	0.0	0	0	22.03	1	52.0	0.0	0	0
22.04	1	58.0	0.0	0	0	22.05	1	50.0	7.0	0	0	22.06	2	73.0	5.0	0	0	22.07	1	58.0	0.0	0	0
22.08	2	83.0	0.0	0	0	22.09	1	52.0	0.0	0	0	22.10	2	79.0	0.0	0	0	22.11	2	69.0	0.0	0	0
22.12	2	74.0	5.0	0	0	23.01	2	86.0	0.0	0	0	23.02	3	106.0	0.0	0	0	23.03	1	52.0	0.0	0	0
23.04	1	58.0	0.0	0	0	23.05	1	50.0	7.0	0	0	23.06	2	73.0	5.0	0	0	23.07	1	58.0	0.0	0	0
23.08	2	83.0	0.0	0	0	23.09	1	52.0	0.0	0	0	23.10	2	79.0	0.0	0	0	23.11	2	69.0	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
23.12	2	74.0	5.0	0	0	24.01	2	86.0	0.0	0	0	24.02	3	106.0	0.0	0	0	24.03	1	52.0	0.0	0	0
24.04	1	58.0	0.0	0	0	24.05	1	50.0	7.0	0	0	24.06	2	73.0	5.0	0	0	24.07	1	58.0	0.0	0	0
24.08	3	142.0	0.0	0	0	24.09	2	79.0	0.0	0	0	24.10	2	70.0	0.0	0	0	24.11	2	74.0	5.0	0	0
25.01	4 or mo be	156.0 pre drooms	0.0	0	0	25.03	1	52.0	0.0	0	0	25.04	1	58.0	0.0	0	0	25.05	1	50.0	7.0	0	0
25.06	2	73.0	5.0	0	0	25.07	1	58.0	0.0	0	0	25.08	3	142.0	0.0	0	0	25.09	2	79.0	0.0	0	0
25.10	2	69.0	0.0	0	0	25.11	2	80.0	0.0	0	0	26.01	4 or ma bea	156.0 ore drooms	0.0	0	0	26.03	2	84.0	0.0	0	0
26.04	2	93.0	0.0	0	0	26.05	2	73.0	5.0	0	0	26.06	1	58.0	0.0	0	0	26.07	3	142.0	0.0	0	0
26.08	2	79.0	0.0	0	0	26.09	2	69.0	0.0	0	0	26.10	2	80.0	0.0	0	0	27.01	4 or mo be	156.0 pre drooms	0.0	0	0
27.03	2	84.0	0.0	0	0	27.04	2	93.0	0.0	0	0	27.05	2	73.0	5.0	0	0	27.06	1	58.0	0.0	0	0
27.07	3	142.0	0.0	0	0	27.08	2	79.0	0.0	0	0	27.09	2	69.0	0.0	0	0	27.10	2	80.0	0.0	0	0
28.01	4 or mo be	165.0 pre drooms	0.0	0	0	28.02	3	110.0	0.0	0	0	28.03	3	125.0	0.0	0	0	28.04	4 or mo be	165.0 pre drooms	0.0	0	0
28.05	2	79.0	0.0	0	0	28.06	2	69.0	0.0	0	0	28.07	2	80.0	0.0	0	0	29.01	4 or mo be	165.0 pre drooms	0.0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	dit a (r	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)	Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
29.02	3	110.0	0.0	0	0	29.03	3	125.0	0.0	0	0	29.04		165.0 ore drooms	0.0	0	0	29.05	2	79.0	0.0	0	0
29.06	2	69.0	0.0	0	0	29.07	2	80.0	0.0	0	0	30.01		232.0 ore drooms	4.0	14	0	30.02	3	110.0	0.0	0	0
30.03	3	125.0	0.0	0	0	30.04	4 or mo bea	231.0 re drooms	6.0	14	0	30.05	2	79.0	0.0	0	0	30.06	2	69.0	0.0	0	0
30.07	2	80.0	0.0	0	0	31.01	3	114.0	0.0	0	0	L	1	11		1	. <u> </u>	L				1	1]

Description of project

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

Common areas of unit building - Tower D

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m²)
Lift car (No. 4)	-	Lift car (No. 5)	-	Lift car (No. 6)	-
Communal Space	104	Plant or service room	251	Meter Room	29
Hallway/lobby type (No. 1)	2155	L		L	·

Common areas of the development (non-building specific)

Common area	Floor area (m²)	Common area	Floor area (m²)	Common area	Floor area (m ²)
Car park area ground to Basement 2	7075	Car park Basement 3 & 4	608	Garbage rooms	245
Switch Room	28	Storage rooms	843	Mail Room	42
Change rooms/WC	85	Ground floor lobby type (No. 1)	395		
Schedule of BASIX commitments

1. Commitments for Residential flat buildings - Tower D

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Comfort

(b) Common areas and central systems/facilities

(i) Water

(ii) Energy

2. Commitments for multi-dwelling houses

3. Commitments for single dwelling houses

4. 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 - Tower D

(a) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	~	~	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		~	~
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		~	~
(e) The applicant must install:			
(aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and		✓	~
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		 Image: A set of the set of the	-
(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.	~	~	~

			Fixtur	es		Appli	ances		Indi	vidual pool		In	dividual	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
30.01, 30.04	3 star (> 7.5 but <= 9 L/min)	3 star	3 star	3 star	-	-	2 star	36	yes	outdoors	no	-	-	-

			Fixtur	es		Appl	iances		Indi	vidual pool		Ir	ndividual	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
10.12, 11.01, 11.02, 11.03, 11.04, 11.05, 11.06, 11.07, 11.08, 11.09, 11.10, 11.11, 12.01, 12.02, 12.03, 12.04, 12.05, 12.06, 12.07, 12.08, 12.09, 12.10, 12.09, 12.10, 12.01, 12.02, 12.03, 12.04, 12.02, 12.03, 12.04, 12.05, 12.00, 12.00, 12.03, 12.04, 12.03, 12.04, 12.05, 12.00, 13.00, 13.00, 13.00, 13.00, 13.00, 13.00, 13.00, 13.01, 13.02, 13.00, 13.00, 13.01, 13.02, 13.00, 13.00, 13.01, 13.01, 13.02, 13.00, 13.0	3 star (> 7.5 but <= 9 L/min)	3 star	3 star	3 star			2 star							

			Fixtur	85		Appli	iances		Indi	vidual pool		Ir	ndividual	sna
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 Spa shaded
14.04, 14.05, 14.06, 14.07, 14.08, 14.09, 14.10, 14.11, 14.12, 15.01, 15.02, 15.03, 15.04, 15.05, 15.06, 15.07, 15.08, 15.09, 15.10, 15.11, 15.12, 16.01, 16.02, 16.03, 16.04, 16.05, 16.06, 16.07, 16.08, 16.09, 16.10, 16.11, 16.12, 17.02, 17.03, 17.04, 17.05, 17.07,														

(-											
			Fixtur	es		Appli	ances		Indi	vidual pool		In	dividual	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
17.08, 17.09, 17.10, 17.11, 17.12, 18.01, 18.02, 18.03, 18.04, 18.05, 18.06, 18.07, 18.08, 18.09, 18.10, 18.11, 18.12, 19.01, 19.02, 19.03, 27.10, 28.01, 28.01, 28.02, 28.03, 28.04														

			Fixtur	es		Appl	liances		Indi	vidual pool		Ir	ndividual	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
02.01, 02.02, 02.03, 02.04, 02.05, 03.01, 03.02, 03.03, 03.04, 03.05, 03.06, 03.07, 03.08, 03.09, 03.10, 03.11, 03.12, 04.01, 04.02, 04.03, 04.04, 04.03, 04.04, 04.05, 04.06, 04.07, 04.08, 04.04, 04.05, 04.04, 04.05, 04.06, 04.07, 04.08, 04.09, 04.11, 05.01, 05.02, 05.03, 05.04, 05.05, 05.06, 05.07, 05.08, 05.09, 05.10, 05.11,	3 star (> 7.5 but <= 9 L/min)	3 star	3 star	3 star			2 star							

		(Fixtur				iances		Indi	vidual pool			ndividual	
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
05.12, 06.01, 06.02, 06.03, 06.04, 06.05, 06.06, 06.07, 06.08, 06.09, 06.10, 06.11, 07.02, 07.03, 07.04, 07.05, 07.06, 07.07, 07.08, 07.09, 07.10, 07.11, 07.12, 08.01, 08.02, 08.03, 08.04, 08.05, 08.06, 08.05, 08.06, 08.07, 08.08, 08.09, 08.11, 08.12, 09.01, 08.12, 09.01, 08.12, 09.01, 08.12, 09.01, 08.12, 09.01, 08.12, 09.01, 08.12, 09.01, 08.12, 09.01, 08.12, 09.01, 08.12, 09.01, 00.12, 00.12, 00.12, 00.12, 00.12, 00.12, 00.12, 00.12, 00.12, 00.12, 00.05, 00.05, 00.05, 00.05, 00.09, 00.10, 00.11, 00.12, 00.05,		Systems				washers								

			Fixtur				ances			vidual pool			ndividual	-
10.	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
09.04, 09.05, 09.06, 09.07, 09.08, 09.09, 09.10, 09.11, 09.12, 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.11, 9.04, 9.05, 9.06, 9.07, 9.08, 9.09, 9.10, 9.11, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.11, 9.04, 9.05, 9.06, 9.07, 9.08, 9.09, 9.10, 0.11, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.11, 9.04, 9.05, 9.06, 9.07, 9.08, 9.09, 9.10, 9.00, 9.00, 0.10, 0.11, 9.04, 9.05, 9.06, 9.07, 9.08, 9.09, 9.10, 9.10, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.01, 0.02, 0.00,	neads	systems	taps	taps	or diversion	wasners		volume)				volume)		

			Fixtur	es		Appli	iances		Indi	vidual pool		lr	dividual	sna
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
20.12, 21.01, 21.02, 21.03, 21.04, 21.05, 21.06, 21.07, 21.08, 21.09, 21.10, 21.11, 21.12, 22.01, 22.02, 22.03, 22.04, 22.05, 22.06, 22.07, 22.08, 22.09, 22.10, 22.11, 22.02, 22.03, 22.04, 22.05, 23.04, 23.02, 23.04, 23.02, 23.04, 23.02, 23.04, 23.02, 23.04, 23.02, 23.04, 23.02, 23.04, 23.02, 23.04, 23.02, 23.02, 23.04, 23.02, 23.04, 23.02, 23														

			Fixtur	es		Annli	ances		Indi	vidual pool		Jr	dividual	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
24.04, 24.05, 24.06, 24.07, 24.08, 24.09, 24.10, 24.11, 25.03, 25.04, 25.05, 25.06, 25.07, 25.08, 25.09, 25.10, 25.11, 26.03, 26.04, 26.05, 26.06, 26.07, 26.08, 26.09, 26.10, 27.01, 27.03, 27.04, 27.05, 27.06, 27.07, 27.08, 27.09, 28.05, 28.06, 28.07, 29.01, 29.02, 29.02,														

			Fixtur	es		Appli	ances		Indi	vidual pool		In	dividual	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
29.03,														
29.04, 29.05,														
29.06,														
29.07,														
30.02,														
30.03,														
30.05,														
30.06,														
30.07,														
31.01														

			Alternative water sou	irce				
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	yes	yes	-	-	-
None	-	-	-	-	-	-	-	-

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

ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		~	~
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		~	~
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	~	~	~
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:			
(aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and		 Image: A set of the set of the	
(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.		 Image: A second s	
(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;		 Image: A second s	
(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.		 Image: A set of the set of the	
(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 ven	tilation system	Kitchen venti	lation system	Laundry vent	ilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	central hot water system 1	individual fan, ducted to façade or roof	interlocked to light	individual fan, not ducted	manual switch on/off	individual fan, ducted to façade or roof	interlocked to light

	Соо	lina	Неа	ting			Artificia	l lighting			Natural lig	uhting
Dwelling no.		bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main
31.01	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	4	2	yes	yes	yes	yes	0	no
26.04, 27.04	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	2	1	yes	yes	yes	yes	0	yes
30.01, 30.04	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	4	1	yes	yes	yes	yes	1	no
25.01, 26.01, 27.01	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	4	1	yes	yes	yes	yes	0	no
24.08, 25.08, 26.07, 27.07	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	3	1	yes	yes	yes	yes	0	yes
28.01, 28.04, 29.01, 29.04	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	4	1	yes	yes	yes	yes	0	yes

	Coc	oling	Hea	ting			Artificia	l lighting			Natural lig	phting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
03.05, 04.05, 05.05, 06.05, 07.05, 08.05, 09.05, 10.05, 11.05, 12.05, 13.05, 14.05, 15.05, 16.05, 17.05, 18.05, 19.05, 20.05, 21.05, 22.05, 23.05, 24.05, 25.05	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1	1	yes	yes	yes	yes	1	no

	Coc	oling	Неа	ting		,	Artificial	lighting		,	Natural lig	phting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
03.06, 04.06, 05.06, 05.06, 05.06, 07.06, 09.06, 11.06, 11.06, 12.06, 13.06, 14.06, 15.06, 15.06, 16.06, 21.06, 22.06, 22.06, 22.06, 23.06, 24.06, 24.06, 24.06, 24.06, 24.05, 27.05	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	2	1	yes	yes	yes	yes	1	no

	Coc	oling	Hea	ting			Artificial	lighting			Natural lig	ghting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitche
03.02, 04.02, 05.02, 06.02, 07.02, 08.02, 09.02, 11.02, 11.02, 12.02, 13.02, 14.02, 15.02, 16.02, 17.02, 18.02, 20.02, 21.02, 23.02, 23.02, 24.02, 28.03, 29.03, 30.02, 30.03	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	3	1	yes	yes	yes	yes	0	no

	Coo	oling	Неа	ting			Artificial	liahtina			Natural lig	ahtina
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main
03.03, 03.04, 03.07, 03.09, 04.03, 04.03, 04.04, 04.07, 04.09, 05.03, 05.04, 05.07, 05.09, 06.03, 06.04, 06.07, 06.09, 07.03, 07.04, 07.07, 07.09, 08.04, 08.07, 08.09, 09.03, 09.04, 09.07, 09.09, 10.03, 10.04, 10.07, 10.09, 11.03, 11.04, 11.07, 11.09, 12.03, 12.04, 12.07, 12.09, 00, 00, 00, 00, 00, 00, 00, 00, 00,	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1	1	yes	yes	yes	yes	0	no

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	Coc	oling	Hea	ating			Artificial	lighting			Natural lig	ghting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitche
13.03, 13.04, 13.07, 13.09, 14.03, 14.04, 14.07, 14.09, 15.03, 15.04, 15.07, 15.09, 16.03, 16.04, 16.07, 16.09, 17.03, 17.04, 17.07, 17.09, 18.03, 18.04, 18.07, 18.03, 18.04, 18.07, 19.03, 19.04, 19.07, 19.09, 19.03,						rooms					tollets	
20.03, 20.04, 20.07, 20.09, 21.03, 21.04,												
21.07, 21.09, 22.03, 22.04, 22.07,												

	Co	oling	He	ating			Artificia	l lighting			Natural lig	ghting
Dwelling I no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitchei
22.09,												
23.03,												
23.04,												
23.09,												
24.03,												
24.04,												
24.07,												
25.03,												
25.04,												
25.07,												
26.06,												
27.06												1

	Coc	ling	Hea	ting			Artificial	lighting			Natural lig	ghting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitcher
02.01, 02.02, 02.03, 02.04, 02.05, 03.01, 03.08, 03.10, 03.11, 03.12, 04.01, 04.11, 04.12, 05.01, 05.12, 06.01, 05.11, 05.12, 06.01, 05.11, 05.12, 06.01, 06.11, 06.12, 07.01, 07.08, 07.10, 07.11, 07.12, 08.01, 08.03, 08.08, 08.10, 08.11, 08.12, 09.01, 09.08, 09.10, 09.01, 09.08, 09.10, 09.01, 00.01, 00.01, 00.01, 00.01,	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	1-phase airconditioning 2.5 Star (new rating)	2	1	yes	yes	yes	yes	0	no

		1.					A	1.1.4				
		oling		ating			Artificial		_		Natural lig	
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main kitche
09.11, 09.12, 10.01, 10.08, 10.10, 10.11, 10.12, 11.01, 11.08, 11.10, 11.11, 11.12, 12.01, 12.01, 12.01, 12.11, 12.08, 12.10, 12.11, 13.08, 13.10, 13.11, 13.12, 14.01, 14.08, 14.10,						rooms					tollets	
14.11, 14.12, 15.01, 15.08, 15.10, 15.11,												
15.12, 16.01, 16.08, 16.10, 16.11, 16.12, 17.01, 17.08,												

	Co	aling	Ho	ating			Artificial	lighting			Natural lig	abting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways	No. of bathrooms &/or toilets	Main
17.10, 17.11, 17.12, 18.01, 18.08, 18.10, 18.11,												
18.12, 19.01, 19.08, 19.10, 19.11, 19.12,												
20.01, 20.08, 20.10, 20.11, 20.12, 21.01, 21.08,												
21.10, 21.11, 21.12, 22.01, 22.08, 22.10,												
22.11, 22.12, 23.01, 23.07, 23.08, 23.10,												
23.11, 23.12, 24.01, 24.09, 24.10, 25.09, 25.10,												

	Co	oling	Неа	ating			Artificial	lighting			Natural ligh	nting
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each Iaundry	All hallways		Main kitche
25.11, 26.03, 26.08, 26.09, 26.10, 27.03, 27.08, 27.09, 27.10, 28.05, 28.06, 28.07, 29.05, 29.06, 29.07, 30.05, 30.06, 30.07												

	Individual p	pol	Individual s	ра			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
31.01	-	-	-	-	gas cooktop & electric oven	-	no	3.5 star	-	2 star	no	no
30.01, 30.04	gas	yes	-	-	gas cooktop & electric oven	-	-	3.5 star	-	2 star	no	no

	Individual p	ool	Individual	spa			Appliance	es & other effic	iency meas	sures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
02.01, 02.02, 02.03, 02.04, 02.05, 03.01, 03.02, 03.03, 03.04, 03.05, 03.06, 03.07, 03.08, 03.09, 03.10, 03.11, 03.12, 04.01, 04.02, 04.03, 04.04, 04.05, 04.06, 04.07, 04.08, 04.09, 04.11, 04.12, 05.01, 05.02, 05.03, 05.04, 05.05, 05.06, 05.07, 05.08, 05.09, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 05.00, 000, 0					gas cooktop & electric oven			3.5 star		2 star	no	no

	Individual p	bool	Individual	spa			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
05.10, 05.11, 05.12, 06.01, 06.02, 06.03, 06.04, 06.05, 06.06, 06.06, 06.07,												
06.08, 06.09, 06.10, 06.11, 06.12, 07.01, 07.02, 07.03,												
07.04, 07.05, 07.06, 07.07, 07.08, 07.09, 07.10, 07.11, 07.12,												
08.01, 08.02, 08.03, 08.04, 08.05, 08.06, 08.07,												
08.08, 08.09, 08.10, 08.11,												

	1				1							
	Individual p	ool	Individual s	ра			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
08.12, 09.01, 09.02, 09.03, 09.04, 09.05, 09.06, 09.07, 09.08, 09.09, 09.10, 09.11, 09.12, 10.01, 10.02, 10.03, 10.04, 10.05, 10.06, 10.07, 10.08, 10.09, 10.10, 10.11, 10.12, 11.01, 11.02, 11.03, 11.04, 11.05, 11.06, 11.07, 11.08, 11.09, 11.10, 11.11, 11.12, 12.01, 11.01, 11.12, 12.01, 10.01,												

	Individual p	ool	Individual s	spa			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
12.02, 12.03, 12.04, 12.05, 12.06, 12.07, 12.08, 12.09, 12.10, 12.11, 13.02, 13.03, 13.04, 13.05, 13.06, 13.07, 13.08, 13.09, 13.10, 13.11, 13.12, 14.01, 14.02, 14.03, 14.04, 14.05, 14.06, 14.07, 14.08, 14.09, 14.10, 14.11, 14.12,												

	Individual p	bool	Individual	spa			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
15.04, 15.05, 15.06,												
5.07, 5.08,												
5.09,												
5.10, 5.11,												
5.12, 6.01,												
6.02, 6.03,												
6.04,												
6.05, 6.06,												
6.07, 6.08,												
6.09, 6.10,												
6.11,												
6.12, 7.01,												
7.02, 7.03,												
7.04, 7.05,												
7.06,												
7.07, 7.08,												
7.09, 7.10,												
7.11, 7.12,												
8.01,												
8.02, 8.03,												
8.04, 8.05,												

	·											
	Individual p	ool	Individual s	pa			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
18.06, 18.07, 18.08, 18.09, 18.10, 18.11, 18.12, 19.01, 19.02, 19.03, 19.04, 19.05, 19.06, 19.07, 19.08, 19.09, 19.10, 19.11, 19.12, 20.01, 20.02, 20.03, 20.04, 20.05, 20.06, 20.07, 20.08, 20.09, 20.10, 20.11, 20.2, 21.01, 21.02, 21.03, 21.04, 21.05,												

	Individual p		Individual	spa			Appliance	es & other effic	iency meas			
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
21.08, 21.09, 21.10, 21.11, 21.12, 22.01, 22.02, 22.03, 22.04, 22.05, 22.06, 22.07, 22.08, 22.09, 22.10, 22.11, 23.02, 23.03, 23.04, 23.03, 23.04, 23.05, 23.04, 23.05, 23.06, 23.07, 23.08, 23.09, 23.04, 23.09, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.05, 23.04, 23.04, 23.05, 23.04, 23.05, 23.04, 23.02, 23.02, 24.02, 24												

	Individual p	lool	Individual	spa			Appliance	es & other effic	iency meas	ures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
24.10, 24.11, 25.01, 25.03, 25.04, 25.05, 25.06, 25.07, 25.08, 25.09, 25.10, 25.11, 26.01, 26.03, 26.04, 26.05, 26.06, 26.07, 26.08, 26.09, 26.10, 27.01, 27.03, 27.04, 27.05, 27.06, 27.07, 27.08, 27.09, 27.00, 28.00, 28.00, 28.00, 28.00, 28.00, 28.00, 27.00, 27.00, 27.00, 27.00, 27.00, 27.00, 27.00, 28.00, 28.00, 28.00, 28.00, 27.00, 27.00, 27.00, 28.00, 28.00, 28.00, 28.00, 28.00, 28.00, 27.00, 27.00, 27.00, 28.00, 29.00, 20												

	Individual p	lood	Individual	spa			Appliance	es & other effic	iency meas	sures		
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
29.02, 29.03, 29.04, 29.05, 29.06, 29.07, 30.02, 30.03, 30.05, 30.06, 30.07												

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

ii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or			
(bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.			
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	~	~	~

	Thermal loads		
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)	
02.01	61	22	
02.03	33	25	
02.04	55	18	
02.05	48	13	
03.01	39	19	
03.02	38	19	
03.03	46	26	
03.04	52	23	
03.05	46	25	
03.06	33	14	
03.07	58	20	
03.08	46	28	
03.09	66	30	
03.10	60	20	
03.12	66	15	
06.08	28	20	
16.02	34	20	
18.07	46	13	
21.07	57	14	

		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
24.02	24	14
24.10	65	13
25.01	44	18
25.03	40	21
25.05	63	18
25.07	47	13
25.11	58	16
26.03	58	21
26.04	44	20
27.03	41	22
27.04	38	21
27.06	61	13
28.02	45	17
28.03	58	15
29.01	46	19
29.03	46	16
30.01	39	31
30.02	32	18
30.03	51	16
30.04	65	36
30.05	40	18
31.01	53	44
03.11, 25.04	62	18
04.08, 05.08	38	20
24.11, 27.05	44	13
26.01, 27.01	43	18
28.04, 29.04	66	20

		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
28.05, 29.05	38	18
28.06, 29.06	33	17
29.02, 30.07	40	16
04.01, 05.01, 06.01	24	15
04.02, 05.02, 06.02	21	17
04.03, 05.03, 06.03	29	23
04.04, 05.04, 06.04	32	20
04.05, 05.05, 06.05	46	21
04.06, 05.06, 06.06	36	12
04.09, 05.09, 06.09	35	23
04.10, 05.10, 06.10	28	18
04.11, 05.11, 06.11	59	15
04.12, 05.12, 06.12	36	13
24.08, 25.08, 26.07	41	18
25.10, 26.09, 27.09	31	18
04.07, 05.07, 06.07, 14.08	52	17
07.01, 08.01, 09.01, 10.01	26	13
07.02, 08.02, 09.02, 10.02	22	15
07.03, 08.03, 09.03, 10.03	32	21
07.04, 08.04, 09.04, 10.04	35	18
07.05, 08.05, 09.05, 10.05	49	19
07.06, 08.06, 09.06, 10.06	38	11
07.07, 08.07, 09.07, 10.07	55	16
07.08, 08.08, 09.08, 10.08	40	17
07.09, 08.09, 09.09, 10.09	37	20
07.10, 08.10, 09.10, 10.10	30	17
07.11, 08.11, 09.11, 10.11	62	13

		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
07.12, 08.12, 09.12, 10.12	38	13
11.01, 12.01, 13.01, 14.01	28	14
11.02, 12.02, 13.02, 14.02	23	21
11.03, 12.03, 13.03, 14.03	31	17
11.04, 12.04, 13.04, 14.04	37	15
11.06, 12.06, 13.06, 14.06	39	12
11.07, 12.07, 13.07, 14.07	54	13
11.08, 12.08, 13.08, 27.07	42	17
11.09, 12.09, 13.09, 14.09	37	17
11.10, 12.10, 13.10, 14.10	32	19
11.11, 12.11, 13.11, 14.11	65	15
11.12, 12.12, 13.12, 14.12	39	14
15.02, 17.02, 18.02, 19.02	24	20
15.07, 16.07, 17.07, 19.07	56	13
20.01, 21.01, 22.01, 23.01	28	12
20.02, 21.02, 22.02, 23.02	25	18
20.08, 21.08, 22.08, 23.08	41	14
20.09, 21.09, 22.09, 23.09	40	19
20.10, 21.10, 22.10, 23.10	32	16
02.02, 11.05, 12.05, 13.05, 14.05	49	21
15.04, 16.04, 17.04, 18.04, 19.04	38	15
15.05, 16.05, 17.05, 18.05, 19.05	51	19
15.06, 16.06, 17.06, 18.06, 19.06	40	12
15.09, 16.09, 17.09, 18.09, 19.09	38	17
15.10, 16.10, 17.10, 18.10, 19.10	33	19
15.12, 16.12, 17.12, 18.12, 19.12	40	13
20.07, 22.07, 23.07, 24.07, 26.06	57	13

	·	Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
15.01, 16.01, 17.01, 18.01, 19.01, 24.01	28	13
20.03, 21.03, 22.03, 23.03, 24.03, 30.06	34	17
20.05, 21.05, 22.05, 23.05, 24.05, 28.01	52	19
20.06, 21.06, 22.06, 23.06, 24.06, 25.06, 26.05	42	14
15.03, 16.03, 17.03, 18.03, 19.03, 24.09, 25.09, 26.08, 27.08	33	16
15.08, 16.08, 17.08, 18.08, 19.08, 20.12, 21.12, 22.12, 23.12	43	16
15.11, 16.11, 17.11, 18.11, 19.11, 20.11, 21.11, 22.11, 23.11	66	14
All other dwellings	38	16

(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.		 Image: A set of the set of the	~

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

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

	Common area ventilation system		Common area ventilation system Common a		Common area lighting		
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS		
Lift car (No. 4)	-	-	compact fluorescent	connected to lift call button	No		
Lift car (No. 5)	-	-	compact fluorescent	connected to lift call button	No		
Lift car (No. 6)	-	-	compact fluorescent	connected to lift call button	No		
Communal Space	ventilation supply only	time clock or BMS controlled	compact fluorescent	zoned switching with motion sensor	No		
Plant or service room	no mechanical ventilation	-	fluorescent	manual on / manual off	No		
Meter Room	no mechanical ventilation	-	fluorescent	manual on / manual off	No		
Hallway/lobby type (No. 1)	ventilation supply only	none ie. continuous	compact fluorescent	zoned switching with motion sensor	No		

Central energy systems	Туре	Specification
Lift (No. 4)	geared traction with V V A C motor	Number of levels (including basement): 35
Lift (No. 5)	gearless traction with V V V F motor	Number of levels (including basement): 34
Lift (No. 6)	gearless traction with V V V F motor	Number of levels (including basement): 34

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

(b) Common areas and central systems/facilities

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

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

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 2356 square metres of common landscaped area on the site car washing in 2 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 ve	entilation 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 ground to Basement 2	ventilation supply only	carbon monoxide monitor + VSD fan	fluorescent	zoned switching with motion sensor	No
Car park Basement 3 & 4	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	zoned switching with motion sensor	No
Garbage rooms	ventilation exhaust only	-	fluorescent	motion sensors	No
Switch Room	no mechanical ventilation	-	fluorescent	manual on / manual off	No
Storage rooms	ventilation supply only	interlocked to light	fluorescent	manual on / manual off	No
Mail Room	ventilation supply only	none ie. continuous	compact fluorescent	manual on / manual off	No
Change rooms/WC	ventilation exhaust only	time clock or BMS controlled	compact fluorescent	zoned switching with motion sensor	No
Ground floor lobby type (No. 1)	ventilation supply only	none ie. continuous	compact fluorescent	zoned switching with motion sensor	No

Central energy systems	Туре	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).