

# BASIX<sup>®</sup>Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Multi Dwelling

Certificate number: 1749831M

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

Secretary

Date of issue: Friday, 31 May 2024

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







Project summary		
Project name	40 The Retreat, Bringelly, NSW 2556 (Copy 03)	
Street address	40 THE RETREAT BRADFIELD 2556	
Local Government Area	LIVERPOOL	
Plan type and plan number	Deposited Plan 803167	
Lot No.	272	
Section no.	-	
No. of residential flat buildings	6	
Residential flat buildings: no. of dwellings	533	
Multi-dwelling housing: no. of dwellings	0	
No. of single dwelling houses	0	
Project score		
Water	✓ 56	Target 40
Thermal Performance	✓ Pass	Target Pass
Energy	✓ 61	Target 58
Materials	✓ -100	Target n/a

Certificate Prepared by
Name / Company Name: JENSEN HUGHES PTY. LIMITED
ABN (if applicable): 29077183192

# Description of project

Project address	
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Street address	40 THE RETREAT BRADFIELD 2556
Local Government Area	LIVERPOOL
Plan type and plan number	Deposited Plan 803167
Lot No.	272
Section no.	-
Project type	
No. of residential flat buildings	6
Residential flat buildings: no. of dwellings	533
Multi-dwelling housing: no. of dwellings	0
No. of single dwelling houses	0
Site details	
Site area (m <sup>2</sup> )	20901.28
Roof area (m <sup>2</sup> )	7294
Non-residential floor area (m <sup>2</sup> )	200
Residential car spaces	631
Non-residential car spaces	4

Common area landscape		
Common area lawn (m <sup>2</sup> )	1058	
Common area garden (m <sup>2</sup> )	7541	
Area of indigenous or low water use species (m <sup>2</sup> )	3371	
Assessor details and thermal loads		
Assessor number	101535	
Certificate number	HR-HB66K2-01	
Climate zone	28	
Project score		
Water	 56	Target 40
Thermal Performance	 Pass	Target Pass
Energy	 61	Target 58
Materials	 -100	Target n/a

## Description of project

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

### Residential flat buildings - Block A, 91 dwellings, 12 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
A0101	2	78	0	0	0
A0105	2	90	0	0	0
A0109	2	86	0	0	0
A0202	2	81	0	0	0
A0206	2	90	0	0	0
A0210	2	86	0	0	0
A0302	2	81	0	0	0
A0306	2	90	0	0	0
A0404	2	86	0	0	0
A0502	2	81	0	0	0
A0506	3	103	0	0	0
A0604	2	86	0	0	0
A0702	2	81	0	0	0
A0706	3	103	0	0	0
A0804	2	86	0	0	0
A0902	2	81	0	0	0
A0906	3	103	0	0	0
A1004	2	86	0	0	0
A1102	2	81	0	0	0
A1106	3	103	0	0	0
A310	2	86	0	0	0
Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
A0102	2	85	0	0	0
A0106	2	76	0	0	0
A0110	3	101	0	0	0
A0203	2	86	0	0	0
A0207	2	76	0	0	0
A0211	3	101	0	0	0
A0303	2	86	0	0	0
A0401	3	102	0	0	0
A0405	2	77	0	0	0
A0503	2	86	0	0	0
A0601	3	102	0	0	0
A0605	2	90	0	0	0
A0703	2	86	0	0	0
A0801	3	102	0	0	0
A0805	2	90	0	0	0
A0903	2	86	0	0	0
A1001	3	102	0	0	0
A1005	2	90	0	0	0
A1103	2	86	0	0	0
A307	2	76	0	0	0
A311	3	101	0	0	0
Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
A0103	2	85	0	0	0
A0107	2	93	0	0	0
A0111	1	53	0	0	0
A0204	2	86	0	0	0
A0208	2	93	0	0	0
A0212	1	53	0	0	0
A0304	2	86	0	0	0
A0402	2	81	0	0	0
A0406	3	103	0	0	0
A0504	2	86	0	0	0
A0602	2	81	0	0	0
A0606	3	103	0	0	0
A0704	2	86	0	0	0
A0802	2	81	0	0	0
A0806	3	103	0	0	0
A0904	2	86	0	0	0
A1002	2	81	0	0	0
A1006	3	103	0	0	0
A1104	2	86	0	0	0
A308	2	93	0	0	0
A312	1	53	0	0	0
Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
A0104	2	84	0	0	0
A0108	2	84	0	0	0
A0201	3	102	0	0	0
A0205	2	84	0	0	0
A0209	2	84	0	0	0
A0301	3	102	0	0	0
A0305	2	84	0	0	0
A0403	2	86	0	0	0
A050	3	102	0	0	0
A0505	2	90	0	0	0
A0603	2	86	0	0	0
A0701	3	102	0	0	0
A0705	2	90	0	0	0
A0803	2	86	0	0	0
A0901	3	102	0	0	0
A0905	2	90	0	0	0
A1003	2	86	0	0	0
A1101	3	102	0	0	0
A1105	2	90	0	0	0
A309	2	84	0	0	0
AG01	2	78	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
AG02	2	85	0	0	0
AG06	2	86	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
AG03	2	85	0	0	0
AG07	2	85	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
AG04	2	77	0	0	0
AG08	2	70	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
AG05	2	73	0	0	0

### Residential flat buildings - Block B, 101 dwellings, 12 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
B0101	2	84	0	0	0
B0105	1	62	0.00	0	0
B0109	2	86	0	0	0
B0203	2	81	0	0	0
B0207	2	81	0	0	0
B0211	1	73	0	0	0
B0304	2	81	0	0	0
B0308	2	81	0	0	0
B0401	2	78	0	0	0
B0405	2	87	0	0	0
B0409	2	79	0	0	0
B0503	1	55	0	0	0
B0507	1	55	0	0	0
B0601	2	78	0	0	0
B0605	2	87	0	0	0
B0609	2	79	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
B0102	2	89	0	0	0
B0106	1	62	0.00	0	0
B0110	1	73	0	0	0
B0204	2	81	0	0	0
B0208	2	81	0	0	0
B0301	2	84	0	0	0
B0305	2	87	0	0	0
B0309	2	86	0	0	0
B0402	2	79	0	0	0
B0406	2	87	0	0	0
B0410	2	78	0	0	0
B0504	1	55	0	0	0
B0508	1	55	0	0	0
B0602	2	79	0	0	0
B0606	2	87	0	0	0
B0610	2	78	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
B0103	2	81	0	0	0
B0107	2	81	0	0	0
B0201	2	84	0	0	0
B0205	2	87	0	0	0
B0209	2	86	0	0	0
B0302	2	89	0	0	0
B0306	2	87	0	0	0
B0310	2	86	0	0	0
B0403	1	55	0	0	0
B0407	1	55	0	0	0
B0501	2	78	0	0	0
B0505	2	87	0	0	0
B0509	2	79	0	0	0
B0603	1	55	0	0	0
B0607	1	55	0	0	0
B0701	2	78	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
B0104	1	79	0	0	0
B0108	3	112	0	0	0
B0202	2	89	0	0	0
B0206	2	87	0	0	0
B0210	2	86	0	0	0
B0303	2	81	0	0	0
B0307	2	81	0	0	0
B0311	1	73	0	0	0
B0404	1	55	0	0	0
B0408	1	55	0	0	0
B0502	2	79	0	0	0
B0506	2	87	0	0	0
B0510	2	78	0	0	0
B0604	1	55	0	0	0
B0608	1	55	0	0	0
B0702	2	79	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
B0703	1	55	0	0	0
B0707	1	55	0	0	0
B0801	2	78	0	0	0
B0805	2	87	0	0	0
B0809	2	79	0	0	0
B0903	1	55	0	0	0
B0907	1	55	0	0	0
B1001	4+	77	0	0	0
B1005	3	73	0	0	0
BG03	3	115	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
B0704	1	55	0	0	0
B0708	1	55	0	0	0
B0802	2	79	0	0	0
B0806	2	87	0	0	0
B0810	2	78	0	0	0
B0904	1	55	0	0	0
B0908	1	55	0	0	0
B1002	4+	68	0	0	0
B1006	3	77	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
B0705	2	87	0	0	0
B0709	2	79	0	0	0
B0803	1	55	0	0	0
B0807	1	55	0	0	0
B0901	2	78	0	0	0
B0905	2	87	0	0	0
B0909	2	79	0	0	0
B1003	3	51	0.00	0	0
BG01	2	81	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
B0706	2	87	0	0	0
B0710	2	78	0	0	0
B0804	1	55	0	0	0
B0808	1	55	0	0	0
B0902	2	79	0	0	0
B0906	2	87	0	0	0
B0910	2	78	0	0	0
B1004	3	51	0	0	0
BG02	3	112	0	0	0

### Residential flat buildings - Block C, 62 dwellings, 9 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
101	3	105	0	0	0
204	2	88	0	0	0
208	2	90	0	0	0
302	3	109	0	0	0
306	1	59	0	0	0
310	1	63	0	0	0
404	2	88	0	0	0
501	2	85	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
201	3	121	0	0	0
205	2	88	0	0	0
209	1	59	0	0	0
303	1	67	0	0	0
307	2	90	0	0	0
401	2	85	0	0	0
405	3	107	0	0	0
502	2	76	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
202	3	109	0	0	0
206	1	59	0	0	0
210	1	63	0	0	0
304	2	88	0	0	0
308	2	90	0	0	0
402	2	76	0	0	0
406	3	107	0	0	0
503	2	88	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
203	1	67	0	0	0
207	2	90	0	0	0
301	3	121	0	0	0
305	2	86	0	0	0
309	1	59	0	0	0
403	2	88	0	0	0
407	1	63	0	0	0
504	2	88	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
505	3	107	0	0	0
602	2	76	0	0	0
606	3	107	0	0	0
703	2	88	0	0	0
803	2	88	0	0	0
G02	2	68	0	0	0
G06	3	68	0	0	0
G10	3	51	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
506	3	107	0	0	0
603	2	88	0	0	0
607	1	63	0	0	0
704	2	88	0	0	0
804	2	88	0	0	0
G03	3	69	0	0	0
G07	3	51	0	0	0
G11	2	54	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
507	1	63	0	0	0
604	2	88	0	0	0
701	2	85	0	0	0
801	2	85	0	0	0
805	1	63	0	0	0
G04	3	68	0	0	0
G08	3	65	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
601	2	85	0	0	0
605	3	107	0	0	0
702	2	76	0	0	0
802	2	76	0	0	0
G01	3	89	0	0	0
G05	2	58	0	0	0
G09	3	65	0	0	0

### Residential flat buildings - Block D, 44 dwellings, 7 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
101	2	80	0	0	0
105	1	59	0	0	0
204	2	88	0	0	0
208	2	90	0	0	0
302	3	109	0	0	0
306	1	59	0	0	0
402	2	76	0	0	0
502	2	76	0	0	0
601	2	83	0	0	0
605	1	63	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
102	1	59	0	0	0
201	3	121	0	0	0
205	2	88	0	0	0
209	1	59	0	0	0
303	1	67	0	0	0
307	1	59	0	0	0
403	2	88	0	0	0
503	2	88	0	0	0
602	2	76	0	0	0
G01	3	89	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
103	2	90	0	0	0
202	3	109	0	0	0
206	1	59	0	0	0
210	1	63	0	0	0
304	2	88	0	0	0
308	1	63	0	0	0
404	2	88	0	0	0
504	2	88	0	0	0
603	2	88	0	0	0
G02	2	68	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
104	2	90	0	0	0
203	1	67	0	0	0
207	2	90	0	0	0
301	3	121	0	0	0
305	2	88	0	0	0
401	2	83	0	0	0
501	2	83	0	0	0
505	1	63	0	0	0
604	2	88	0	0	0
G03	3	69	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
G04	3	68	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
G05	2	58	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
G06	3	68	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
G07	2	54	0	0	0

### Residential flat buildings - Block E, 107 dwellings, 13 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1001	1	65	0	0.00	0
1005	3	73	0	0.00	0
103	2	83	0	0	0
107	2	87	0	0	0
202	2	88	0	0	0
206	2	81	0	0	0
210	2	81	0	0	0
302	2	89	0	0	0
306	2	87	0	0	0
310	2	84	0	0	0
404	1	55	0	0	0
408	1	55	0	0	0
502	2	89	0	0	0
506	2	87	0	0	0
510	2	78	0	0	0
604	1	55	0	0	0
608	1	55	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1002	2	89	0	0	0
1006	3	69	0	0	0
104	1	55	0	0	0
108	2	87	0	0	0
203	2	83	0	0	0
207	2	87	0	0	0
211	2	89	0	0	0
303	1	51	0	0	0
307	2	81	0	0	0
401	1	65	0	0.00	0
405	2	87	0	0	0
409	2	79	0	0	0
503	1	55	0	0	0
507	1	55	0	0	0
601	1	65	0	0.00	0
605	2	87	0	0	0
609	2	79	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1003	3	115	0	0	0
101	1	76	0	0	0
105	2	81	0	0	0
109	3	118	0	0	0
204	1	55	0	0	0
208	2	87	0	0	0
212	2	84	0	0	0
304	1	55	0	0	0
308	2	81	0	0	0
402	2	89	0	0	0
406	2	87	0	0	0
410	2	78	0	0	0
504	1	55	0	0	0
508	1	55	0	0	0
602	2	89	0	0	0
606	2	87	0	0	0
610	2	78	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1004	3	51	0	0.00	0
102	2	88	0	0	0
106	2	81	0	0	0
201	1	76	0	0	0
205	2	81	0	0	0
209	2	81	0	0	0
301	1	51	0	0	0
305	2	87	0	0	0
309	2	89	0	0	0
403	1	55	0	0	0
407	1	55	0	0	0
501	1	65	0	0.00	0
505	2	87	0	0	0
509	2	79	0	0	0
603	1	55	0	0	0
607	1	55	0	0	0
701	1	65	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
702	2	89	0	0	0
706	2	87	0	0	0
710	2	78	0	0	0
804	1	55	0	0	0
808	1	55	0	0	0
902	2	89	0	0	0
906	2	87	0	0	0
910	2	78	0	0	0
G04	1	55	0	0	0
LG02	1	64	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
703	1	55	0	0	0
707	1	55	0	0	0
801	1	65	0	0	0
805	2	87	0	0	0
809	2	79	0	0	0
903	1	55	0	0	0
907	1	55	0	0	0
G01	1	76	0	0	0
G05	2	81	0	0	0
LG03	2	81	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
704	1	55	0	0	0
708	1	55	0	0	0
802	2	89	0	0	0
806	2	87	0	0	0
810	2	78	0	0	0
904	1	55	0	0	0
908	1	55	0	0	0
G02	2	88	0	0	0
G06	2	81	0	0	0
LG04	2	81	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
705	2	87	0	0	0
709	2	79	0	0	0
803	1	55	0	0	0
807	1	55	0	0	0
901	1	65	0	0	0
905	2	87	0	0	0
909	2	79	0	0	0
G03	1	55	0	0	0
LG01	3	119	0	0	0

### Residential flat buildings - Block F, 128 dwellings, 12 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1001	3	104	0	0	0
1005	3	97	0	0	0
1009	2	76	0	0	0
103	2	85	0	0	0
107	2	97	0	0	0
111	3	127	0	0	0
202	2	88	0	0	0
206	2	87	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1002	2	87	0	0	0
1006	2	91	0	0	0
101	3	141	0	0	0
104	2	94	0	0	0
108	2	89	0	0	0
112	2	94	0	0	0
203	2	85	0	0	0
207	2	97	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1003	2	85	0	0	0
1007	2	95	0	0	0
1010	2	93	0	0	0
105	2	89	0	0	0
109	2	94	0	0	0
113	1	68	0	0	0
204	2	94	0	0	0
208	2	89	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
1004	2	95	0	0	0
1008	2	85	0	0	0
102	2	88	0	0	0
106	2	87	0	0	0
110	2	85	0	0	0
201	3	141	0	0	0
205	2	89	0	0	0
209	2	94	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
210	2	85	0	0	0
301	3	141	0	0	0
305	2	89	0	0	0
309	2	94	0	0	0
313	1	68	0	0	0
404	2	95	0	0	0
408	2	95	0	0	0
502	2	88	0	0	0
506	2	91	0	0	0
510	2	93	0	0	0
604	2	95	0	0	0
608	2	85	0	0	0
702	2	88	0	0	0
706	2	91	0	0	0
710	2	93	0	0	0
804	2	95	0	0	0
808	2	85	0	0	0
902	2	88	0	0	0
906	2	91	0	0	0
910	2	93	0	0	0
G04	2	94	0	0	0
G08	2	89	0	0	0
G12	2	93	0	0	0
LG03	2	85	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
211	3	127	0	0	0
302	2	88	0	0	0
306	2	87	0	0	0
310	2	85	0	0	0
401	3	141	0	0	0
405	2	87	0	0	0
409	2	76	0	0	0
503	2	85	0	0	0
507	2	95	0	0	0
601	3	141	0	0	0
605	3	97	0	0	0
609	2	76	0	0	0
703	2	85	0	0	0
707	2	95	0	0	0
801	3	141	0	0	0
805	3	97	0	0	0
809	2	76	0	0	0
903	2	85	0	0	0
907	2	95	0	0	0
G01	2	82	0	0	0
G05	2	89	0	0	0
G09	2	94	0	0	0
G13	1	67	0	0	0
LG04	2	94	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
212	2	94	0	0	0
303	2	85	0	0	0
307	2	97	0	0	0
311	3	127	0	0	0
402	2	88	0	0	0
406	2	83	0	0	0
410	2	93	0	0	0
504	2	95	0	0	0
508	2	85	0	0	0
602	2	88	0	0	0
606	2	91	0	0	0
610	2	93	0	0	0
704	2	95	0	0	0
708	2	85	0	0	0
802	2	88	0	0	0
806	2	91	0	0	0
810	2	93	0	0	0
904	2	95	0	0	0
908	2	85	0	0	0
G02	2	86	0	0	0
G06	2	87	0	0	0
G10	2	85	0	0	0
LG01	2	82	0	0	0
LG05	2	78	0	0	0

Dwelling no.	No. of bedrooms	Conditioned floor area (m <sup>2</sup> )	Unconditioned floor area (m <sup>2</sup> )	Area of garden & lawn (m <sup>2</sup> )	Indigenous species (min area m <sup>2</sup> )
213	1	68	0	0	0
304	2	94	0	0	0
308	2	89	0	0	0
312	2	94	0	0	0
403	2	85	0	0	0
407	2	95	0	0	0
501	3	141	0	0	0
505	3	97	0	0	0
509	2	76	0	0	0
603	2	85	0	0	0
607	2	95	0	0	0
701	3	141	0	0	0
705	3	97	0	0	0
709	2	76	0	0	0
803	2	85	0	0	0
807	2	95	0	0	0
901	3	141	0	0	0
905	3	97	0	0	0
909	2	76	0	0	0
G03	2	85	0	0	0
G07	2	95	0	0	0
G11	3	127	0	0	0
LG02	1	50	0	0	0
LG06	2	85	0	0	0

## Description of project

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

### Common areas of the development (non-building specific)

Common area	Floor area (m <sup>2</sup> )
Lift bank (No. 1)	-
Lift bank (No. 4)	-
Undercover car park area (D,E,F)	8442
AC service rooms	1172
Amenity	380
Ground floor lobbies	1230

Common area	Floor area (m <sup>2</sup> )
Lift bank (No. 2)	-
Gym area	250
Switch and control rooms	1755
Pump room and fire tank	517
Storage	243
Lobbies and Corridors	4527

Common area	Floor area (m <sup>2</sup> )
Lift bank (No. 3)	-
Undercover car park area (A,B,C)	14775
Garbage and waste rooms	680
Fire stairs	2568
Bike Parking	251

# Schedule of BASIX commitments

## 1. Commitments for Residential flat buildings - Block A

### (a) Buildings

(i) Materials

### (b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

### (c) Common areas and central systems/facilities

(i) Water

(ii) Energy

## 2. Commitments for Residential flat buildings - Block B

### (a) Buildings

(i) Materials

### (b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

### (c) Common areas and central systems/facilities

(i) Water

(ii) Energy

## 3. Commitments for Residential flat buildings - Block C

### (a) Buildings

(i) Materials

### (b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

#### 4. Commitments for Residential flat buildings - Block D

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

#### 5. Commitments for Residential flat buildings - Block E

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

#### 6. Commitments for Residential flat buildings - Block F

(a) Buildings

(i) Materials

(b) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

(c) Common areas and central systems/facilities

(i) Water

(ii) Energy

7. Commitments for multi-dwelling housing

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

8. Commitments for single dwelling houses

(a) Dwellings

(i) Water

(ii) Energy

(iii) Thermal Performance

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

(a) Buildings 'Other'

(i) Materials

(b) Common areas and central systems/facilities

(i) Water

(ii) Energy

## Schedule of BASIX commitments

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

### 1. Commitments for Residential flat buildings - Block A

#### (a) Buildings

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

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	715	polyurethane	-
floors above habitable rooms, frame: suspended concrete slab	14895	-	-
suspended floor above garage, frame: suspended concrete slab	686	polyurethane	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards), frame: light steel frame	4452	-	fibreglass batts or roll
External wall type 2	AAC veneer, frame: light steel frame	1011	-	fibreglass batts or roll

**Internal wall types**

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	5575	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	3666	fibreglass batts or roll

**Reinforcement concrete frames/columns**

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

**Ceiling and roof types**

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1466	-	fibreglass batts or roll

**Glazing types**

**Frame types**

Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
2107	0	0	2107	0	0	0	0

**(b) Dwellings**

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✓	✓	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✓	✓
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✓	✓
(e) The applicant must install: <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul>		✓ ✓	✓ ✓
(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.	✓	✓	✓

Dwelling no.	Fixtures					Appliances		Individual pool				Individual spa		
	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
A307, A308, A309, A310, A311,	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	-	5 star	6 star	-	-	-	-	-	-	-

Dwelling no.	Fixtures					Appliances		Individual pool				Individual spa		
	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
A312, AG08														
All other dwellings	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	-	5 star	6 star	-	-	-	-	-	-	-

Dwelling no.	Alternative water source							
	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
A307, A308, A309, A310, A311, A312, AG08	No alternative water supply	-	-	-	-	-	-	-
A307, A308, A309, A310, A311, A312, AG08	No alternative water supply	-	-	-	-	-	-	-
All other dwellings	Central water tank (No. 1)	See central systems	See central systems	no	yes	no	no	no
All other dwellings	No alternative water supply	-	-	-	-	-	-	-

(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.		✓	✓

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

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

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

Dwelling no.	Individual pool			Individual spa		Appliances other efficiency measures				
	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
A307, A308, A309, A310, A311, A312	-	-	-	-	-	electric cooktop & electric oven	4 star	9.0 star	-	-
All other dwellings	-	-	-	-	-	electric cooktop & electric oven	4 star	9.0 star	no	no

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

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

<b>Thermal loads</b>			
Dwelling no.	Area adjusted heating load (in MJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in MJ/m <sup>2</sup> /yr)	Area adjusted total load (in MJ/m <sup>2</sup> /yr)
All dwellings	22.5	17.6	40.100

**(c) Common areas and central systems/facilities**

<b>(i) Water</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

<b>Common area</b>	<b>Showerheads rating</b>	<b>Toilets rating</b>	<b>Taps rating</b>	<b>Clothes washers rating</b>
All common areas	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	no common laundry facility

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

## 2. Commitments for Residential flat buildings - Block B

### (a) Buildings

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

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	258	polyurethane	-
floors above habitable rooms, frame: suspended concrete slab	15378	-	-
suspended floor above garage, frame: suspended concrete slab	503	polyurethane	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards),frame:light steel frame	4203	-	fibreglass batts or roll
External wall type 2	AAC veneer,frame:light steel frame	1544	-	fibreglass batts or roll

#### Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	5363	-

**Internal wall types**

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 2	75 mm AAC panel, frame:light steel frame	1145	fibreglass batts or roll

**Reinforcement concrete frames/columns**

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

**Ceiling and roof types**

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1027	-	fibreglass batts or roll

**Glazing types**

**Frame types**

Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
2279	0	0	2279	0	0	0	0

**(b) Dwellings**

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✔	✔	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✔	✔
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✔	✔
(e) The applicant must install: <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul>		✔ ✔	✔ ✔
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	✔	✔	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		✔	
(g) The pool or spa must be located as specified in the table.	✔	✔	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	✔	✔	✔

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

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

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

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

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

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

	<b>Individual pool</b>			<b>Individual spa</b>		<b>Appliances other efficiency measures</b>				
<b>Dwelling no.</b>	<b>Pool heating system</b>	<b>Pool Pump</b>	<b>Timer</b>	<b>Spa heating system</b>	<b>Timer</b>	<b>Kitchen cooktop/oven</b>	<b>Dishwasher</b>	<b>Clothes dryer</b>	<b>Indoor or sheltered clothes drying line</b>	<b>Private outdoor or unsheltered clothes drying line</b>
All dwellings	-	-	-	-	-	electric cooktop & electric oven	4 star	9.0 star	no	no

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

<b>Thermal loads</b>			
Dwelling no.	Area adjusted heating load (in MJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in MJ/m <sup>2</sup> /yr)	Area adjusted total load (in MJ/m <sup>2</sup> /yr)
All dwellings	26.6	24.7	51.300

**(c) Common areas and central systems/facilities**

<b>(i) Water</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

<b>Common area</b>	<b>Showerheads rating</b>	<b>Toilets rating</b>	<b>Taps rating</b>	<b>Clothes washers rating</b>
All common areas	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	no common laundry facility

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

### 3. Commitments for Residential flat buildings - Block C

#### (a) Buildings

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

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	104	polyurethane	-
floors above habitable rooms, frame: suspended concrete slab	12711	-	-
suspended floor above garage, frame: suspended concrete slab	819	polyurethane	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (metal clad),frame:light steel frame	1620	-	fibreglass batts or roll
External wall type 2	AAC veneer,frame:light steel frame	316	-	fibreglass batts or roll

#### Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	4111	-

**Internal wall types**

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 2	75 mm AAC panel, frame:light steel frame	3992	fibreglass batts or roll

**Reinforcement concrete frames/columns**

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

**Ceiling and roof types**

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	886	-	fibreglass batts or roll

**Glazing types****Frame types**

Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
1699	0	0	1699	0	0	0	0

**(b) Dwellings**

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✔	✔	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✔	✔
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✔	✔
(e) The applicant must install: <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul>		✔ ✔	✔ ✔
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	✔	✔	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		✔	
(g) The pool or spa must be located as specified in the table.	✔	✔	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	✔	✔	✔

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

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

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

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

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

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

	<b>Individual pool</b>			<b>Individual spa</b>		<b>Appliances other efficiency measures</b>				
<b>Dwelling no.</b>	<b>Pool heating system</b>	<b>Pool Pump</b>	<b>Timer</b>	<b>Spa heating system</b>	<b>Timer</b>	<b>Kitchen cooktop/oven</b>	<b>Dishwasher</b>	<b>Clothes dryer</b>	<b>Indoor or sheltered clothes drying line</b>	<b>Private outdoor or unsheltered clothes drying line</b>
All dwellings	-	-	-	-	-	electric cooktop & electric oven	4 star	9.0 star	no	no

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

<b>Thermal loads</b>			
Dwelling no.	Area adjusted heating load (in MJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in MJ/m <sup>2</sup> /yr)	Area adjusted total load (in MJ/m <sup>2</sup> /yr)
All dwellings	27.8	13.7	41.500

**(c) Common areas and central systems/facilities**

<b>(i) Water</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

<b>Common area</b>	<b>Showerheads rating</b>	<b>Toilets rating</b>	<b>Taps rating</b>	<b>Clothes washers rating</b>
All common areas	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	no common laundry facility

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

## 4. Commitments for Residential flat buildings - Block D

### (a) Buildings

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

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	115	polyurethane	-
floors above habitable rooms, frame: suspended concrete slab	7779	-	-
suspended floor above garage, frame: suspended concrete slab	571	polyurethane	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards),frame:light steel frame	1406	-	fibreglass batts or roll
External wall type 2	AAC veneer,frame:light steel frame	559	-	fibreglass batts or roll

#### Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	2708	-

**Internal wall types**

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 2	75 mm AAC panel, frame:light steel frame	3057	fibreglass batts or roll

**Reinforcement concrete frames/columns**

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

**Ceiling and roof types**

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	640.9	-	fibreglass batts or roll

**Glazing types**

**Frame types**

Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
1143	0	0	1143	0	0	0	0

**(b) Dwellings**

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✔	✔	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✔	✔
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✔	✔
(e) The applicant must install: <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul>		✔ ✔	✔ ✔
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	✔	✔	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		✔	
(g) The pool or spa must be located as specified in the table.	✔	✔	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	✔	✔	✔

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

Alternative water source								
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
All dwellings	Central water tank (No. 2)	See central systems	See central systems	no	yes	no	no	no
All dwellings	No alternative water supply	-	-	-	-	-	-	-

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

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

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

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

	<b>Individual pool</b>			<b>Individual spa</b>		<b>Appliances other efficiency measures</b>				
<b>Dwelling no.</b>	<b>Pool heating system</b>	<b>Pool Pump</b>	<b>Timer</b>	<b>Spa heating system</b>	<b>Timer</b>	<b>Kitchen cooktop/oven</b>	<b>Dishwasher</b>	<b>Clothes dryer</b>	<b>Indoor or sheltered clothes drying line</b>	<b>Private outdoor or unsheltered clothes drying line</b>
All dwellings	-	-	-	-	-	electric cooktop & electric oven	4 star	9.0 star	no	no

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

<b>Thermal loads</b>			
Dwelling no.	Area adjusted heating load (in MJ/m <sup>2</sup> /yr)	Area adjusted cooling load (in MJ/m <sup>2</sup> /yr)	Area adjusted total load (in MJ/m <sup>2</sup> /yr)
All dwellings	27.9	15.7	43.600

**(c) Common areas and central systems/facilities**

<b>(i) Water</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

<b>Common area</b>	<b>Showerheads rating</b>	<b>Toilets rating</b>	<b>Taps rating</b>	<b>Clothes washers rating</b>
All common areas	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	no common laundry facility

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

## 5. Commitments for Residential flat buildings - Block E

### (a) Buildings

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

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	224.5	polyurethane	-
floors above habitable rooms, frame: suspended concrete slab	10624	-	-
suspended floor above garage, frame: suspended concrete slab	320	polyurethane	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards),frame:light steel frame	3103	-	fibreglass batts or roll
External wall type 2	AAC veneer,frame:light steel frame	3629	-	fibreglass batts or roll

#### Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	5195	-

**Internal wall types**

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 2	75 mm AAC panel, frame:light steel frame	7001	fibreglass batts or roll

**Reinforcement concrete frames/columns**

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

**Ceiling and roof types**

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1108.7	-	fibreglass batts or roll

**Glazing types****Frame types**

Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
2410	0	0	2410	0	0	0	0

**(b) Dwellings**

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✔	✔	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✔	✔
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✔	✔
(e) The applicant must install: <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul>		✔ ✔	✔ ✔
(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.	✔	✔	✔

Dwelling no.	Fixtures					Appliances		Individual pool				Individual spa		
	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
109, 212, 305, 306, 801, 901,	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	-	5 star	6 star	-	-	-	-	-	-	-

Dwelling no.	Fixtures					Appliances		Individual pool				Individual spa		
	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
G05, G06														
All other dwellings	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	-	5 star	6 star	-	-	-	-	-	-	-

Dwelling no.	Alternative water source							
	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
109, 212, 305, 306, 801, 901, G05, G06	No alternative water supply	-	-	-	-	-	-	-
109, 212, 305, 306, 801, 901, G05, G06	No alternative water supply	-	-	-	-	-	-	-
All other dwellings	Central water tank (No. 2)	See central systems	See central systems	no	yes	no	no	no
All other dwellings	No alternative water supply	-	-	-	-	-	-	-

(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.		✔	✔

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

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

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

Dwelling no.	Individual pool			Individual spa		Appliances other efficiency measures				
	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
109, 212, 305, 306	-	-	-	-	-	electric cooktop & electric oven	4 star	9.0 star	-	-
All other dwellings	-	-	-	-	-	electric cooktop & electric oven	4 star	9.0 star	no	no

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

<b>(iii) Thermal Performance</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(g) Where there is an in-slab heating or cooling system, the applicant must:  (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✔	✔	✔
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✔	✔	✔
(i) The applicant must show on The plans accompanying The development application for The proposed development, The locations of ceiling fans set out in The Assessor Certificate.	✔		
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		✔	

<b>Thermal loads</b>			
<b>Dwelling no.</b>	<b>Area adjusted heating load (in MJ/m<sup>2</sup>/yr)</b>	<b>Area adjusted cooling load (in MJ/m<sup>2</sup>/yr)</b>	<b>Area adjusted total load (in MJ/m<sup>2</sup>/yr)</b>
All dwellings	24.9	31.4	56.300

**(c) Common areas and central systems/facilities**

<b>(i) Water</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

<b>Common area</b>	<b>Showerheads rating</b>	<b>Toilets rating</b>	<b>Taps rating</b>	<b>Clothes washers rating</b>
All common areas	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	no common laundry facility

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

## 6. Commitments for Residential flat buildings - Block F

### (a) Buildings

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

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	620	polyurethane	-
floors above habitable rooms, frame: suspended concrete slab	19136	-	-
suspended floor above garage, frame: suspended concrete slab	599	polyurethane	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards),frame:light steel frame	8275	-	fibreglass batts or roll

#### Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	8213	-
Internal wall type 2	75 mm AAC panel, frame:light steel frame	6481	fibreglass batts or roll

**Reinforcement concrete frames/columns**

Building has reinforced concrete frame/columns?	Volume (m <sup>3</sup> )	Low emissions option
-	-	-

**Ceiling and roof types**

Ceiling and roof type	Area (m <sup>2</sup> )	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	3540	-	fibreglass batts or roll

**Glazing types**

**Frame types**

Single glazing (m <sup>2</sup> )	Double glazing (m <sup>2</sup> )	Triple glazing (m <sup>2</sup> )	Aluminium frames (m <sup>2</sup> )	Timber frames (m <sup>2</sup> )	uPVC frames (m <sup>2</sup> )	Steel frames (m <sup>2</sup> )	Composite frames (m <sup>2</sup> )
3369	0	0	3369	0	0	0	0

**(b) Dwellings**

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✓	✓	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✓	✓
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✓	✓
(e) The applicant must install: <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul>		✓ ✓	✓ ✓
(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.	✓	✓	✓

Dwelling no.	Fixtures					Appliances		Individual pool				Individual spa		
	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
113, 213, 313, 410, G13	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	6 star	-	5 star	6 star	-	-	-	-	-	-	-

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

Dwelling no.	Alternative water source							
	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up
1010, 113, 213, 313, 410, G13	No alternative water supply	-	-	-	-	-	-	-
1010, 113, 213, 313, 410, G13	No alternative water supply	-	-	-	-	-	-	-
All other dwellings	Central water tank (No. 2)	See central systems	See central systems	no	yes	no	no	no
All other dwellings	No alternative water supply	-	-	-	-	-	-	-

(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.		✔	✔

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

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

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

	Individual pool			Individual spa		Appliances other efficiency measures				
Dwelling no.	Pool heating system	Pool Pump	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Dishwasher	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
113, 213, 313, 410, G13	-	-	-	-	-	electric cooktop & electric oven	4 star	9.0 star	-	-
All other dwellings	-	-	-	-	-	electric cooktop & electric oven	4 star	9.0 star	no	no

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

<b>(iii) Thermal Performance</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(g) Where there is an in-slab heating or cooling system, the applicant must:  (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.	✔	✔	✔
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	✔	✔	✔
(i) The applicant must show on The plans accompanying The development application for The proposed development, The locations of ceiling fans set out in The Assessor Certificate.	✔		
(j) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), the locations of ceiling fans set out in the Assessor Certificate.		✔	

<b>Thermal loads</b>			
<b>Dwelling no.</b>	<b>Area adjusted heating load (in MJ/m<sup>2</sup>/yr)</b>	<b>Area adjusted cooling load (in MJ/m<sup>2</sup>/yr)</b>	<b>Area adjusted total load (in MJ/m<sup>2</sup>/yr)</b>
All dwellings	33.2	13.8	47.000

**(c) Common areas and central systems/facilities**

<b>(i) Water</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✓	✓

<b>Common area</b>	<b>Showerheads rating</b>	<b>Toilets rating</b>	<b>Taps rating</b>	<b>Clothes washers rating</b>
All common areas	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	no common laundry facility

<b>(ii) Energy</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.	✓	✓	✓

## 7. Commitments for multi-dwelling housing

### (a) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✓	✓	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✓	✓
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✓	✓
(e) The applicant must install: <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul>		✓ ✓	✓ ✓
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	✓	✓	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		✓	
(g) The pool or spa must be located as specified in the table.	✓	✓	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	✓	✓	✓
(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	✓	✓	✓
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		✓	✓

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

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

## 8. Commitments for single dwelling houses

### (a) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	✔	✔	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		✔	✔
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		✔	✔
(e) The applicant must install: <ul style="list-style-type: none"> <li>(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</li> <li>(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.</li> </ul>		✔ ✔	✔ ✔
(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.	✔	✔	✔
<b>(ii) Energy</b>	<b>Show on DA plans</b>	<b>Show on CC/CDC plans &amp; specs</b>	<b>Certifier check</b>
(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.		✔	✔

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

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

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

### (a) Buildings 'Other'

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

#### Floor types

Floor type	Area (m2)	Insulation	Low emissions option
suspended floor above open subfloor, frame: suspended concrete slab	715	polyurethane	-
floors above habitable rooms, frame: suspended concrete slab	14895	-	-
suspended floor above garage, frame: suspended concrete slab	686	polyurethane	-

#### External wall types

External wall type	Construction type	Area (m2)	Low emissions option	Insulation
External wall type 1	framed (fibre cement sheet or boards),frame:light steel frame	4452	-	fibreglass batts or roll
External wall type 2	AAC veneer,frame:light steel frame	1011	-	fibreglass batts or roll

#### Internal wall types

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 1	plasterboard, frame:light steel frame	5575	-

**Internal wall types**

Internal wall type	Construction type	Area (m2)	Insulation
Internal wall type 2	75 mm AAC panel, frame:light steel frame	3666	fibreglass batts or roll

**Reinforcement concrete frames/columns**

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

**Ceiling and roof types**

Ceiling and roof type	Area (m²)	Roof Insulation	Ceiling Insulation
concrete - plasterboard internal, frame: no frame	1458	-	fibreglass batts or roll

**Glazing types****Frame types**

Single glazing (m²)	Double glazing (m²)	Triple glazing (m²)	Aluminium frames (m²)	Timber frames (m²)	uPVC frames (m²)	Steel frames (m²)	Composite frames (m²)
2107	0	0	2107	0	0	0	0

**(b) Common areas and central systems/facilities**

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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	4 star (> 4.5 but <= 6 L/min)	4 star	6 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for...)
Swimming pool (No. 1)	Volume: 160 kLs	Location: Other Pool shaded: no	-
Central water tank - rainwater or stormwater (No. 1)	50000	To collect run-off from at least: - 2572 square metres of roof area of buildings in the development - 0 square metres of impervious area in the development - 0 square metres of garden/lawn area in the development - 0 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system).	- irrigation of 2614 square metres of common landscaped area on the site - car washing in 1 car washing bays on the site

Central systems	Size	Configuration	Connection (to allow for...)
Central water tank - rainwater or stormwater (No. 2)	30000	To collect run-off from at least: - 3064 square metres of roof area of buildings in the development - 0 square metres of impervious area in the development - 0 square metres of garden/lawn area in the development - 0 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system).	- irrigation of 2614 square metres of common landscaped area on the site - car washing in 0 car washing bays on the site
Fire sprinkler system (No. 1)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-
Fire sprinkler system (No. 2)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-
Fire sprinkler system (No. 3)	-	So that fire sprinkler test water is contained within the fire sprinkler system for re-use, rather than disposed.	-

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

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS
Lift bank (No. 1)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 2)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 3)	-	-	light-emitting diode	connected to lift call button	no
Lift bank (No. 4)	-	-	light-emitting diode	connected to lift call button	no
Gym area	air conditioning system	time clock or BMS controlled	light-emitting diode	manual on / manual off	no
Undercover car park area (A,B,C)	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	zoned switching with motion sensor	no

Common area	Common area ventilation system		Common area lighting		
	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/ BMS
Undercover car park area (D,E,F)	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	fluorescent	zoned switching with motion sensor	no
Switch and control rooms	ventilation supply only	thermostatically controlled	fluorescent	motion sensors	no
Garbage and waste rooms	ventilation exhaust only	-	fluorescent	motion sensors	no
AC service rooms	no mechanical ventilation	-	fluorescent	motion sensors	no
Pump room and fire tank	ventilation supply only	thermostatically controlled	fluorescent	motion sensors	no
Fire stairs	no mechanical ventilation	-	fluorescent	motion sensors	no
Amenity	air conditioning system	time clock or BMS controlled	light-emitting diode	motion sensors	no
Storage	ventilation exhaust only	none i.e., continuous	fluorescent	motion sensors	no
Bike Parking	ventilation exhaust only	none i.e., continuous	fluorescent	motion sensors	no
Ground floor lobbies	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	no
Lobbies and Corridors	ventilation supply only	time clock or BMS controlled	light-emitting diode	motion sensors	no

Central energy systems	Type	Specification
Swimming pool (No. 1)	Heating source: electric heat pump	Pump controlled by timer: yes
Lift bank (No. 1)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 12 number of levels from the bottom of the lift shaft to the top of the lift shaft: 14 number of lifts: 14 lift load capacity: >= 1001 kg but <= 1500kg
Lift bank (No. 2)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 7 number of levels from the bottom of the lift shaft to the top of the lift shaft: 9 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Lift bank (No. 3)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 9 number of levels from the bottom of the lift shaft to the top of the lift shaft: 11 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg
Lift bank (No. 4)	gearless traction with V V V F motor and regenerative drive	Number of levels (including basement): 5 number of levels from the bottom of the lift shaft to the top of the lift shaft: 7 number of lifts: 2 lift load capacity: >= 1001 kg but <= 1500kg

Central energy systems	Type	Specification
Central hot water system (No. 1)	electric heat pump – air sourced	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R1.0 (~38 mm) (c) Unit Efficiency: $3.0 < COP \leq 3.5$
Central cooling system (No. 1)	variable refrigerant volume units	Energy source: electric driven compressor Heat rejection method: air cooled condenser Unit efficiency (min): medium – COP 3.5 – 5.5
Central heating system (No. 1)	variable refrigerant volume units	Energy source: electric driven compressor + air sourced evaporator Unit efficiency medium – COP 3.5 – 5.5
Alternative energy supply	Photovoltaic system	Rated electrical output (min): 100 peak kW
Other	-	-

## 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).

### Assessor Details

Name: Robert Romanous  
Direct Number: (02) 8484 4086  
Office: 1300 787 302  
AAO: ABSA  
Assessor Number: 101535

### Assessment Details

Project #: 118517  
Project Name: 40 The Retreat, Bringelly  
Software: HERO v3.1.0.6  
Date: 22/03/2024

BASIX Certificate Number:

### Client Details

Company Name: Sathio Group  
Contact Email: petermullen@sathiogroup.com.au

### NCC 2022 Section J Compliance (Class 2) – Version 4 BASIX

In addition to the BASIX Commitments, building compliance is required to comply with the New South Wales state variations within the NCC 2022 - Volume 1. Specific mention is made of the following provisions:

- **NSW J2** – Energy Efficiency,
- **NSW J4** – Building Fabric,
- **NSW J5** – Building Sealing,
- **NSW J6** – Air-Conditioning and Ventilation,
- **NSW J8** – Heated Water Supply, and
- **J9** – Energy Monitoring and On-site Distributed Energy Resources

Performance Requirement **NSW J1P5** is satisfied by complying with—

- **J3D5** and **J3D6**, for thermal breaks; and
- **J4D3**, for general thermal construction; and
- **J3D10(3)**, **J3D10(5)** and **J3D10(6)**, for floor edge insulation.

Performance Requirement **NSW J1P6** is satisfied by complying with **Part J5** for building sealing.

Performance Requirement **NSW J1P7** is satisfied by complying with—

- **Part J6**, for air-conditioning and ventilation; and
- **J8D2**, for heated water supply; and
- **J9D3**, for facilities for energy monitoring.

Performance Requirement **NSW J1P4** is satisfied by complying with **J9D4** and **J9D5**.



<b>Water (Score: 56% / WSAP Target: 60%) – Target not met</b>		<b>Comments</b>
<b>Rainwater Tank</b>	RWT 1 – Blocks A, B, C 50kL Collection water from roof of Blocks A, B, C (2,572m <sup>2</sup> ) RWT 2 – Blocks D, E, F 30kL Collection water from roof of Blocks D, E, F (3,064m <sup>2</sup> )  Rainwater tank water use for <ul style="list-style-type: none"><li>- All non-low water use landscape,</li><li>- 1 Car washing bay, and</li><li>- All unit toilets.</li></ul>	
<b>Common Landscape</b>	Lawn: 1,058m <sup>2</sup> Garden: 7,541m <sup>2</sup> , of which 3,371m <sup>2</sup> are low water use species	
<b>Private Landscape</b>	Nil	
<b>Fire Sprinkler Systems</b>	All closed loop test systems	
<b>Bathroom Taps</b>	6 Star	Highest rating possible
<b>Kitchen Taps</b>	6 Star	Highest rating possible
<b>Showerheads</b>	4 Star (4.5-6.0L/min)	Highest rating possible
<b>Toilet Flusher</b>	4 Star	Highest rating possible for residential use
<b>Dishwasher</b>	6 Star (Water)	Highest rating possible
<b>Washing Machine</b>	5 Star (Water)	Highest rating possible
<b>Common Pool</b>	Max 160kL	
End of Water		



Energy (Score: 60% / WSAP Target: 60%) – Target met			Comments
Common Area	Ventilation / Type	Lighting	
Gym area	Air-conditioning w/ time clock	LED w/ manual switch	
Car park area	Supply + exhaust w/ CO monitor + VSD fan	Fluorescent w/ zoned switching and motion sensors	
Switch and control rooms	Supply only w/ thermostatically controlled	Fluorescent w/ motion sensors	
Garbage and waste rooms	Exhaust only	Fluorescent w/ motion sensors	
AC services rooms	No mechanical ventilation	Fluorescent w/ motion sensors	Naturally ventilated
Pump room and fire tank	Supply only w/ thermostatically controlled	Fluorescent w/ motion sensors	
Fire stairs	No mechanical ventilation	Fluorescent w/ motion sensors	
Amenity	Air-conditioning w/ time clock	LED w/ motion sensors	
Ground floor lobbies	Supply only w/ time clock	LED w/ motion sensors	
Lobbies and corridors	Supply only w/ time clock	LED w/ motion sensors	
Lift	Gearless Traction w/ VVVF motor and <b>regenerative drive</b> 20 residential lifts (1000-1500kg)	LED w/ connected to lift call button	
Solar PV	Min <b>100kW</b> peak system connected to common area / central systems		
Pool	<ul style="list-style-type: none"><li>- Electric heat pump heating</li><li>- Pump on timer</li></ul>		



Dwellings		
<b>Hot Water</b>	<ul style="list-style-type: none"><li>- Central hot water systems</li><li>- Electric heat pump w/ COP above 3.0</li><li>- R1.0 insulation around all internal and external piping</li></ul>	
<b>Dwelling Ventilation</b>	Bathroom fans <ul style="list-style-type: none"><li>- Externally ducted w/ Interlock to light and timer off</li></ul> Kitchen fans <ul style="list-style-type: none"><li>- Externally ducted w/ manual switch</li></ul> Laundry fans <ul style="list-style-type: none"><li>- Externally ducted w/ manual switch</li></ul>	
<b>AC Cooling and Heating</b> <i>If Individual</i>	System Type – 1 Phase AC Efficiency – EER/COP 3.0 – 3.5	Energy score <b>60</b> if individual
<b>AC Cooling</b> <i>If Central</i>	System Type – VRV Energy Source – Electric driven compressor Heat Rejection – Air cooled condenser Efficiency – COP above 3.5	Energy score <b>61</b> if central VRV system  Energy score <b>51 (fail)</b> if central chilled / heater water system
<b>AC Heating</b> <i>If Central</i>	System Type – VRV Energy Source – Electric driven compressor + air sourced evaporator Efficiency – COP above 3.5	
<b>Lighting</b>	LED throughout all units	
<b>Appliances</b>	<ul style="list-style-type: none"><li>- Electric oven</li><li>- Electric or Induction cooktop</li><li>- 4 Star Dishwater</li><li>- 9 Star Clothes Dryer (Heat pump - condenser)</li></ul>	
End of Energy		



Thermal Comfort - All Buildings	
<b>Glazing</b>	
<b>Spec 1 – Primary</b>	
<b>Sliding / Fixed / Louvre</b> Max U-value 4.50 SHGC 0.61 (± 10%) Single Glazed Aluminium Frame – Low-e Clear, <b>or</b> Double Glazed Aluminium Frame – Clear	<b>Awning and Casement</b> Max U-value 4.50 SHGC 0.50 (± 10%) Single Glazed Aluminium Frame – Low-e Clear, <b>or</b> Double Glazed Aluminium Frame – Clear
<b>Spec 2 – FLG01, FUG13, E603, B1001, B1003</b>	
<b>Sliding / Fixed / Louvre</b> Max U-value 3.20 SHGC 0.49 (± 10%) Double Glazed Aluminium Frame – Low-e Clear	<b>Awning and Casement</b> Max U-value 3.20 SHGC 0.46 (± 10%) Double Glazed Aluminium Frame – Low-e Clear
<b>External Walls</b>	
External Walls of Units	Concrete Panel - Additional 90mm R2.50 insulation within metal frame Various Cladding - Additional 90mm R2.50 insulation within metal frame - <i>Note external walls to have an air gap between external skin and metal frame, otherwise an R0.20 thermal break will be required.</i>
<b>Internal Walls</b>	
Unit walls to Corridors and Lobbies	Hebel Panel - Additional 70mm R1.50 insulation within metal frame - <i>Note this wall to have an air gap between Hebel and metal frame, otherwise an R0.20 thermal break will be required.</i>
Unit walls to Lifts and Fire Stairs	Concrete - Additional 70mm R1.50 insulation within metal frame
Intertenancy Walls	No thermal additional insulation modelled
Internal Walls Inside Units	No thermal additional insulation modelled
<b>Unit Floors</b>	
Floors To Unconditioned Internal Areas (Service rooms, corridors, lobbies, etc)	Concrete - Additional R2.00 insulation board
Floors To Basement and External	Concrete - Additional R2.00 insulation board
Intertenancy units	Concrete - No Additional Insulation
<b>Unit Roof</b>	
Roof To Unconditioned and External	Concrete - Additional R2.70 insulation soffit board
End of Thermal	

# Nationwide House Energy Rating Scheme<sup>®</sup> Class 2 Summary

## NatHERS<sup>®</sup> Certificate No. #HR-HB66K2-01

Generated on 30 May 2024 using Hero 4.0

### Property

**Address** The Retreat, Bringelly, NSW, 2556  
**Lot/DP** 272/803167  
**NatHERS climate zone** 28 - Richmond



### Accredited assessor

**Name** Robert Romanous  
**Business name** BCA Energy | Jensen Hughes  
**Email** robert.romanous@jensenhughes.com  
**Phone** +61 419925118  
**Accreditation No.** 101535  
**Assessor Accrediting Organisation** ABSA

### Verification

To verify this certificate, scan the QR code or visit <http://www.hero-software.com.au/pdf/HR-HB66K2-01>.  
When using either link, ensure you are visiting <http://www.hero-software.com.au>



### National Construction Code (NCC) requirements

The NCC allows the use of NatHERS accredited software to comply with the energy efficiency requirements for houses (Class 1 buildings) and apartments (Class 2 sole-occupancy units and Class 4 parts of buildings). The applicable requirements for houses are detailed in Specification 42 of NCC Volume Two. For apartments the requirements are detailed in clauses J3D3 and J3D15 of NCC Volume One.

NCC 2022 includes enhanced thermal performance requirements for houses and apartments. It also includes a new whole-of-home annual energy use budget which applies to the major equipment in the home.

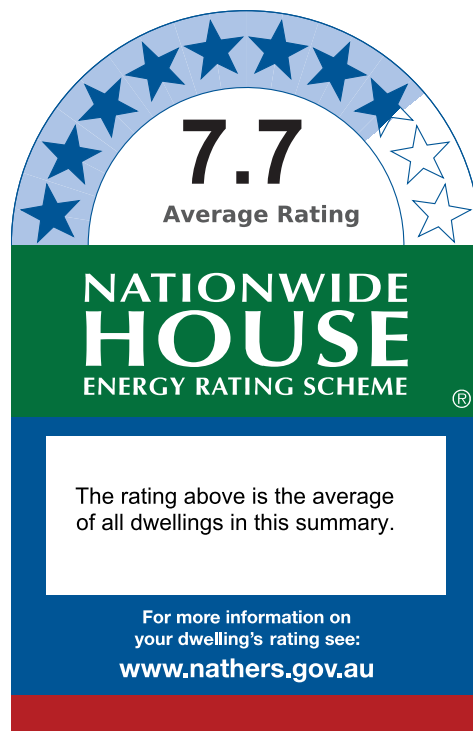
The NCC, and associated ABCB Standards and support material, can be accessed at [www.abcb.gov.au](http://www.abcb.gov.au).

Note, variations and additions to the NCC energy efficiency requirements may apply in some states and territories.

### Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m <sup>2</sup> .yr)	Cooling load (load limit) (MJ/m <sup>2</sup> .yr)	Total load (MJ/m <sup>2</sup> .yr)	Star Rating	Whole of Home Rating
<a href="#">HR-F6Z3XD-01</a>	A0101	10.4 (65)	42.4 (51)	52.8	7.4	n/a
<a href="#">HR-XEFJQ3-01</a>	A0102	8.8 (65)	16.7 (51)	25.5	8.9	n/a
<a href="#">HR-5G06G8-01</a>	A0103	10.1 (65)	15.5 (51)	25.6	8.9	n/a

### Thermal performance Star rating



### NCC heating and cooling maximum loads MJ/m<sup>2</sup>.yr

Limits taken from ABCB Standard 2022

	Heating	Cooling
<b>Average load</b>	27.1	20.2
<b>Maximum load</b>	63.5	50.4
<b>Average limit</b>	58.0	45.0
<b>Maximum limit</b>	65.1	50.6

### Whole of Home performance rating

No Whole of Home performance rating generated for this certificate or not completed for all dwellings.



## Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m <sup>2</sup> .yr)	Cooling load (load limit) (MJ/m <sup>2</sup> .yr)	Total load (MJ/m <sup>2</sup> .yr)	Star Rating	Whole of Home Rating
<a href="#">HR-T47LNJ-01</a>	A0104	10.9 (65)	20.8 (51)	31.7	8.6	n/a
<a href="#">HR-PJC6FG-01</a>	A0105	21.2 (65)	7.7 (51)	28.9	8.7	n/a
<a href="#">HR-9O7JNJ-01</a>	A0106	30.3 (65)	11.8 (51)	42.1	7.9	n/a
<a href="#">HR-U25BNS-01</a>	A0107	27.4 (65)	5.8 (51)	33.2	8.4	n/a
<a href="#">HR-XQHCU3-01</a>	A0108	10.8 (65)	12.3 (51)	23.1	8.9	n/a
<a href="#">HR-0VMQMK-01</a>	A0109	14.6 (65)	13.2 (51)	27.8	8.8	n/a
<a href="#">HR-M18NB7-01</a>	A0110	23.1 (65)	21.3 (51)	44.5	7.8	n/a
<a href="#">HR-O78ZB8-01</a>	A0111	54.3 (65)	22.1 (51)	76.4	6.1	n/a
<a href="#">HR-FBSZY6-01</a>	A0201	39.4 (65)	16.8 (51)	56.3	7.2	n/a
<a href="#">HR-HGGYW9-01</a>	A0202	7.8 (65)	38.0 (51)	45.8	7.8	n/a
<a href="#">HR-Y2YHRN-01</a>	A0203	9.8 (65)	21.0 (51)	30.8	8.6	n/a
<a href="#">HR-CKF2E5-01</a>	A0204	10.6 (65)	20.7 (51)	31.3	8.6	n/a
<a href="#">HR-8WTBTK-01</a>	A0205	10.2 (65)	19.8 (51)	30.0	8.7	n/a
<a href="#">HR-KRIX9S-01</a>	A0206	8.2 (65)	8.2 (51)	16.4	9.4	n/a
<a href="#">HR-EFCL8U-01</a>	A0207	31.9 (65)	12.5 (51)	44.3	7.8	n/a
<a href="#">HR-SE3D42-01</a>	A0208	10.4 (65)	6.5 (51)	16.9	9.4	n/a
<a href="#">HR-E9KB91-01</a>	A0209	10.7 (65)	11.4 (51)	22.1	9.1	n/a
<a href="#">HR-0RUDWS-01</a>	A0210	13.8 (65)	14.2 (51)	28.0	8.8	n/a
<a href="#">HR-ZMGACU-01</a>	A0211	21.0 (65)	22.2 (51)	43.2	7.9	n/a
<a href="#">HR-B1V2O5-01</a>	A0212	43.5 (65)	17.5 (51)	61.0	6.9	n/a
<a href="#">HR-MDLOK4-01</a>	A0301	30.1 (65)	17.1 (51)	47.2	7.7	n/a
<a href="#">HR-22N1Z8-01</a>	A0302	7.9 (65)	36.8 (51)	44.7	7.8	n/a
<a href="#">HR-NKZJQ1-01</a>	A0303	9.9 (65)	20.7 (51)	30.6	8.6	n/a
<a href="#">HR-CKC8GA-01</a>	A0304	10.8 (65)	20.2 (51)	31.1	8.6	n/a
<a href="#">HR-3Z642H-01</a>	A0305	13.3 (65)	19.7 (51)	33.0	8.4	n/a
<a href="#">HR-KEFM8N-01</a>	A0306	16.4 (65)	8.9 (51)	25.4	8.9	n/a
<a href="#">HR-51J69U-01</a>	A0307	32.0 (65)	13.2 (51)	45.2	7.8	n/a
<a href="#">HR-HNG3BR-01</a>	A0308	23.0 (65)	11.2 (51)	34.2	8.4	n/a
<a href="#">HR-KRB5WP-01</a>	A0309	19.1 (65)	11.5 (51)	30.6	8.6	n/a

## Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m <sup>2</sup> .yr)	Cooling load (load limit) (MJ/m <sup>2</sup> .yr)	Total load (MJ/m <sup>2</sup> .yr)	Star Rating	Whole of Home Rating
<a href="#">HR-W09YKV-01</a>	A0310	21.4 (65)	14.9 (51)	36.2	8.3	n/a
<a href="#">HR-AKANLU-01</a>	A0311	31.7 (65)	23.1 (51)	54.8	7.3	n/a
<a href="#">HR-DFRKEQ-01</a>	A0312	54.0 (65)	16.8 (51)	70.9	6.4	n/a
<a href="#">HR-01YITZ-01</a>	A0401	36.0 (65)	25.3 (51)	61.3	6.9	n/a
<a href="#">HR-SU0RK0-01</a>	A0402	19.7 (65)	40.3 (51)	60.0	6.9	n/a
<a href="#">HR-CJ5TYD-01</a>	A0403	21.3 (65)	30.5 (51)	51.8	7.4	n/a
<a href="#">HR-RN0FTZ-01</a>	A0404	22.4 (65)	29.3 (51)	51.8	7.4	n/a
<a href="#">HR-WIXM2E-01</a>	A0405	16.5 (65)	30.9 (51)	47.3	7.7	n/a
<a href="#">HR-WAHYEE-01</a>	A0406	48.3 (65)	17.1 (51)	65.5	6.7	n/a
<a href="#">HR-HN8MPY-01</a>	A0501	32.9 (65)	13.1 (51)	45.9	7.8	n/a
<a href="#">HR-M34S1I-01</a>	A0502	10.6 (65)	26.9 (51)	37.4	8.2	n/a
<a href="#">HR-LXEIZE-01</a>	A0503	13.1 (65)	13.9 (51)	27.0	8.8	n/a
<a href="#">HR-94DPBV-01</a>	A0504	14.0 (65)	13.4 (51)	27.4	8.8	n/a
<a href="#">HR-LMZD2O-01</a>	A0505	11.0 (65)	25.5 (51)	36.5	8.3	n/a
<a href="#">HR-YURRQY-01</a>	A0506	40.7 (65)	10.0 (51)	50.7	7.5	n/a
<a href="#">HR-ZET1S4-01</a>	A0601	32.7 (65)	13.0 (51)	45.7	7.8	n/a
<a href="#">HR-22W2HQ-01</a>	A0602	10.5 (65)	26.5 (51)	37.0	8.3	n/a
<a href="#">HR-DT11CN-01</a>	A0603	13.0 (65)	13.7 (51)	26.7	8.8	n/a
<a href="#">HR-EKHF1F-01</a>	A0604	13.9 (65)	13.1 (51)	27.1	8.8	n/a
<a href="#">HR-GIOX3D-01</a>	A0605	10.9 (65)	24.8 (51)	35.6	8.3	n/a
<a href="#">HR-GI24LN-01</a>	A0606	40.8 (65)	9.7 (51)	50.4	7.5	n/a
<a href="#">HR-X1A77G-01</a>	A0701	32.7 (65)	12.7 (51)	45.4	7.8	n/a
<a href="#">HR-FY11SB-01</a>	A0702	10.6 (65)	26.1 (51)	36.8	8.3	n/a
<a href="#">HR-LJ2XZY-01</a>	A0703	13.1 (65)	13.8 (51)	26.9	8.8	n/a
<a href="#">HR-U6FTQM-01</a>	A0704	14.2 (65)	13.0 (51)	27.2	8.8	n/a
<a href="#">HR-JB6L8B-01</a>	A0705	11.1 (65)	24.4 (51)	35.5	8.3	n/a
<a href="#">HR-CQNB0Z-01</a>	A0706	40.7 (65)	9.9 (51)	50.6	7.5	n/a
<a href="#">HR-5X34M7-01</a>	A0801	33.5 (65)	12.3 (51)	45.8	7.8	n/a
<a href="#">HR-6VGXXV-01</a>	A0802	10.8 (65)	25.7 (51)	36.5	8.3	n/a



## Summary of all dwellings

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<a href="#">HR-CRPU62-01</a>	A0803	13.4 (65)	13.6 (51)	27.0	8.8	n/a
<a href="#">HR-8YZZHF-01</a>	A0804	14.4 (65)	12.9 (51)	27.3	8.8	n/a
<a href="#">HR-YNMTS1-01</a>	A0805	11.5 (65)	24.2 (51)	35.7	8.3	n/a
<a href="#">HR-75QLJ1-01</a>	A0806	41.1 (65)	9.9 (51)	51.0	7.5	n/a
<a href="#">HR-13YPMU-01</a>	A0901	36.7 (65)	12.7 (51)	49.4	7.6	n/a
<a href="#">HR-8MKCD5-01</a>	A0902	10.9 (65)	25.2 (51)	36.1	8.3	n/a
<a href="#">HR-77Z2HE-01</a>	A0903	13.3 (65)	13.3 (51)	26.7	8.8	n/a
<a href="#">HR-7ATLCC-01</a>	A0904	14.4 (65)	12.8 (51)	27.2	8.8	n/a
<a href="#">HR-Y5GSXR-01</a>	A0905	11.7 (65)	23.5 (51)	35.2	8.4	n/a
<a href="#">HR-WHAR9J-01</a>	A0906	41.3 (65)	10.0 (51)	51.3	7.4	n/a
<a href="#">HR-COQP43-01</a>	A1001	36.0 (65)	13.1 (51)	49.0	7.6	n/a
<a href="#">HR-U0N2J0-01</a>	A1002	10.9 (65)	25.0 (51)	35.9	8.3	n/a
<a href="#">HR-WRS4BA-01</a>	A1003	13.4 (65)	13.4 (51)	26.8	8.8	n/a
<a href="#">HR-CFOFA4-01</a>	A1004	14.3 (65)	12.8 (51)	27.1	8.8	n/a
<a href="#">HR-JNSC69-01</a>	A1005	11.7 (65)	23.6 (51)	35.3	8.4	n/a
<a href="#">HR-7SLJR5-01</a>	A1006	41.0 (65)	10.1 (51)	51.1	7.4	n/a
<a href="#">HR-UHI7RF-01</a>	A1101	46.9 (65)	13.6 (51)	60.5	6.9	n/a
<a href="#">HR-UQTWNO-01</a>	A1102	16.9 (65)	23.4 (51)	40.3	8.0	n/a
<a href="#">HR-CEI9RC-01</a>	A1103	22.1 (65)	13.3 (51)	35.4	8.4	n/a
<a href="#">HR-QY06PU-01</a>	A1104	22.5 (65)	13.1 (51)	35.5	8.3	n/a
<a href="#">HR-QALK7O-01</a>	A1105	20.8 (65)	23.4 (51)	44.1	7.8	n/a
<a href="#">HR-0Y9C1Z-01</a>	A1106	53.3 (65)	9.9 (51)	63.2	6.8	n/a
<a href="#">HR-FLW690-01</a>	AG01	29.7 (65)	25.2 (51)	54.9	7.3	n/a
<a href="#">HR-OIPBL3-01</a>	AG02	22.8 (65)	18.6 (51)	41.4	7.9	n/a
<a href="#">HR-099AF8-01</a>	AG03	24.2 (65)	16.5 (51)	40.8	8.0	n/a
<a href="#">HR-DY4RES-01</a>	AG04	22.1 (65)	20.6 (51)	42.6	7.9	n/a
<a href="#">HR-X1FSWL-01</a>	AG05	27.1 (65)	16.7 (51)	43.8	7.9	n/a
<a href="#">HR-KRYUHU-01</a>	AG06	16.4 (65)	15.2 (51)	31.6	8.6	n/a
<a href="#">HR-2O5MWN-01</a>	AG07	45.4 (65)	20.1 (51)	65.5	6.7	n/a



## Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m <sup>2</sup> .yr)	Cooling load (load limit) (MJ/m <sup>2</sup> .yr)	Total load (MJ/m <sup>2</sup> .yr)	Star Rating	Whole of Home Rating
<a href="#">HR-U41BIK-01</a>	AG08	58.8 (65)	12.5 (51)	71.4	6.4	n/a
<a href="#">HR-N7IH1U-01</a>	B 1.01	49.4 (65)	12.8 (51)	62.2	6.9	n/a
<a href="#">HR-U13S66-01</a>	B 1.02	39.0 (65)	26.2 (51)	65.2	6.7	n/a
<a href="#">HR-RHECMA-01</a>	B 1.03	21.7 (65)	20.8 (51)	42.5	7.9	n/a
<a href="#">HR-NUYRQZ-01</a>	B 1.04	35.9 (65)	16.7 (51)	52.7	7.4	n/a
<a href="#">HR-EJN0U6-01</a>	B 1.05	32.7 (65)	24.7 (51)	57.4	7.1	n/a
<a href="#">HR-4BPISX-01</a>	B 1.06	44.8 (65)	21.9 (51)	66.6	6.7	n/a
<a href="#">HR-F5ECH2-01</a>	B 1.07	25.8 (65)	20.1 (51)	45.9	7.8	n/a
<a href="#">HR-J1REBW-01</a>	B 1.08	18.6 (65)	19.4 (51)	38.0	8.2	n/a
<a href="#">HR-HV7HNY-01</a>	B 1.09	43.9 (65)	14.5 (51)	58.4	7.1	n/a
<a href="#">HR-NGNA47-01</a>	B 1.10	33.8 (65)	35.8 (51)	69.6	6.5	n/a
<a href="#">HR-XI1FDX-01</a>	B 10.01	49.8 (65)	21.1 (51)	70.9	6.4	n/a
<a href="#">HR-JW0XMY-01</a>	B 10.02	35.6 (65)	23.7 (51)	59.4	7.0	n/a
<a href="#">HR-1ODREK-01</a>	B 10.03	35.6 (65)	19.2 (51)	54.8	7.3	n/a
<a href="#">HR-0OCQWO-01</a>	B 10.04	43.4 (65)	29.9 (51)	73.3	6.3	n/a
<a href="#">HR-4IN49J-01</a>	B 10.05	22.6 (65)	25.2 (51)	47.7	7.7	n/a
<a href="#">HR-XK7S80-01</a>	B 10.06	20.1 (65)	18.4 (51)	38.5	8.2	n/a
<a href="#">HR-HECKDZ-01</a>	B 2.01	31.6 (65)	14.6 (51)	46.2	7.7	n/a
<a href="#">HR-7XBH19-01</a>	B 2.02	26.5 (65)	24.4 (51)	50.9	7.5	n/a
<a href="#">HR-I454WT-01</a>	B 2.03	20.2 (65)	20.0 (51)	40.2	8.0	n/a
<a href="#">HR-TDPGUM-01</a>	B 2.04	25.4 (65)	32.2 (51)	57.6	7.1	n/a
<a href="#">HR-23JX4C-01</a>	B 2.05	21.1 (65)	49.8 (51)	71.0	6.4	n/a
<a href="#">HR-T05PJ1-01</a>	B 2.06	26.3 (65)	48.9 (51)	75.2	6.2	n/a
<a href="#">HR-U3B9KC-01</a>	B 2.07	36.9 (65)	23.8 (51)	60.7	6.9	n/a
<a href="#">HR-NNUWAU-01</a>	B 2.08	23.6 (65)	22.2 (51)	45.8	7.8	n/a
<a href="#">HR-W86M5L-01</a>	B 2.09	15.7 (65)	31.6 (51)	47.3	7.7	n/a
<a href="#">HR-D76Z00-01</a>	B 2.10	48.1 (65)	13.7 (51)	61.7	6.9	n/a
<a href="#">HR-DF4475-01</a>	B 2.11	34.1 (65)	35.1 (51)	69.3	6.5	n/a
<a href="#">HR-SBOJH0-01</a>	B 3.01	36.7 (65)	15.3 (51)	52.0	7.4	n/a



## Summary of all dwellings

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<a href="#">HR-KOF643-01</a>	B 3.02	31.3 (65)	23.9 (51)	55.2	7.3	n/a
<a href="#">HR-IBE315-01</a>	B 3.03	22.0 (65)	20.3 (51)	42.3	7.9	n/a
<a href="#">HR-6KX9C6-01</a>	B 3.04	27.0 (65)	32.4 (51)	59.4	7.0	n/a
<a href="#">HR-WGA9XV-01</a>	B 3.05	16.5 (65)	50.4 (51)	66.9	6.7	n/a
<a href="#">HR-SVI2GB-01</a>	B 3.06	21.5 (65)	49.8 (51)	71.3	6.4	n/a
<a href="#">HR-MA898W-01</a>	B 3.07	35.7 (65)	24.8 (51)	60.5	6.9	n/a
<a href="#">HR-5DB8FR-01</a>	B 3.08	24.8 (65)	22.9 (51)	47.7	7.7	n/a
<a href="#">HR-H40G21-01</a>	B 3.09	21.7 (65)	28.2 (51)	49.8	7.6	n/a
<a href="#">HR-GMIZOV-01</a>	B 3.10	53.1 (65)	13.9 (51)	67.0	6.7	n/a
<a href="#">HR-10VAIL-01</a>	B 3.11	33.7 (65)	34.9 (51)	68.6	6.6	n/a
<a href="#">HR-GBUZEZ-01</a>	B 4.01	27.6 (65)	13.5 (51)	41.1	7.9	n/a
<a href="#">HR-GE2ONY-01</a>	B 4.02	30.7 (65)	15.6 (51)	46.3	7.7	n/a
<a href="#">HR-B08HD3-01</a>	B 4.03	15.7 (65)	15.1 (51)	30.8	8.6	n/a
<a href="#">HR-OK0223-01</a>	B 4.04	22.7 (65)	19.9 (51)	42.6	7.9	n/a
<a href="#">HR-3QO766-01</a>	B 4.05	21.1 (65)	29.3 (51)	50.4	7.5	n/a
<a href="#">HR-NF9SSE-01</a>	B 4.06	26.2 (65)	41.7 (51)	67.9	6.6	n/a
<a href="#">HR-BUWPS5-01</a>	B 4.07	30.6 (65)	34.1 (51)	64.7	6.8	n/a
<a href="#">HR-SRNA5U-01</a>	B 4.08	14.3 (65)	15.4 (51)	29.7	8.7	n/a
<a href="#">HR-82H5AE-01</a>	B 4.09	22.0 (65)	29.9 (51)	51.8	7.4	n/a
<a href="#">HR-DVMRAP-01</a>	B 4.10	21.7 (65)	21.9 (51)	43.6	7.9	n/a
<a href="#">HR-9FYFY6-01</a>	B 5.01	26.4 (65)	14.7 (51)	41.1	7.9	n/a
<a href="#">HR-SJ88PE-01</a>	B 5.02	31.2 (65)	15.2 (51)	46.3	7.7	n/a
<a href="#">HR-WBMVAU-01</a>	B 5.03	16.0 (65)	14.4 (51)	30.4	8.6	n/a
<a href="#">HR-UGGVNM-01</a>	B 5.04	23.2 (65)	19.6 (51)	42.8	7.9	n/a
<a href="#">HR-VYO2M2-01</a>	B 5.05	21.2 (65)	34.3 (51)	55.5	7.3	n/a
<a href="#">HR-PGFKSY-01</a>	B 5.06	26.4 (65)	41.4 (51)	67.8	6.6	n/a
<a href="#">HR-4RL18W-01</a>	B 5.07	31.1 (65)	34.1 (51)	65.1	6.7	n/a
<a href="#">HR-CBHAKE-01</a>	B 5.08	13.4 (65)	19.5 (51)	32.9	8.5	n/a

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<a href="#">HR-YQPJUZ-01</a>	B 5.09	20.4 (65)	21.5 (51)	41.9	7.9	n/a
<a href="#">HR-QRWJPS-01</a>	B 5.10	19.9 (65)	21.5 (51)	41.4	7.9	n/a
<a href="#">HR-4D5OT1-01</a>	B 6.01	24.9 (65)	15.2 (51)	40.2	8.1	n/a
<a href="#">HR-DHWCEL-01</a>	B 6.02	31.5 (65)	15.0 (51)	46.5	7.7	n/a
<a href="#">HR-3J2YBS-01</a>	B 6.03	16.2 (65)	14.1 (51)	30.3	8.6	n/a
<a href="#">HR-V1JPCD-01</a>	B 6.04	23.5 (65)	19.8 (51)	43.2	7.9	n/a
<a href="#">HR-2R61FV-01</a>	B 6.05	21.1 (65)	37.5 (51)	58.6	7.1	n/a
<a href="#">HR-01DMJR-01</a>	B 6.06	26.4 (65)	42.3 (51)	68.7	6.6	n/a
<a href="#">HR-KJ33PZ-01</a>	B 6.07	31.5 (65)	34.5 (51)	65.9	6.7	n/a
<a href="#">HR-6EVJLH-01</a>	B 6.08	13.7 (65)	19.3 (51)	33.0	8.4	n/a
<a href="#">HR-79UR2L-01</a>	B 6.09	16.5 (65)	21.6 (51)	38.1	8.2	n/a
<a href="#">HR-5Y0DMW-01</a>	B 6.10	11.8 (65)	21.6 (51)	33.4	8.4	n/a
<a href="#">HR-QEBCC0-01</a>	B 7.01	18.5 (65)	20.7 (51)	39.3	8.1	n/a
<a href="#">HR-BD6TT9-01</a>	B 7.02	31.8 (65)	14.7 (51)	46.5	7.7	n/a
<a href="#">HR-XYAMDJ-01</a>	B 7.03	16.1 (65)	14.0 (51)	30.2	8.6	n/a
<a href="#">HR-7VPMCQ-01</a>	B 7.04	23.6 (65)	19.1 (51)	42.7	7.9	n/a
<a href="#">HR-RUNKOZ-01</a>	B 7.05	20.0 (65)	44.2 (51)	64.2	6.8	n/a
<a href="#">HR-78ZP7X-01</a>	B 7.06	25.7 (65)	44.9 (51)	70.6	6.4	n/a
<a href="#">HR-L6CF67-01</a>	B 7.07	31.7 (65)	33.7 (51)	65.4	6.7	n/a
<a href="#">HR-1SUX5C-01</a>	B 7.08	13.9 (65)	18.9 (51)	32.8	8.5	n/a
<a href="#">HR-P7MJUM-01</a>	B 7.09	9.2 (65)	22.1 (51)	31.3	8.6	n/a
<a href="#">HR-L5IW40-01</a>	B 7.10	6.3 (65)	25.0 (51)	31.3	8.6	n/a
<a href="#">HR-MMV130-01</a>	B 8.01	23.8 (65)	15.3 (51)	39.1	8.1	n/a
<a href="#">HR-0WVJCC-01</a>	B 8.02	30.3 (65)	14.3 (51)	44.5	7.8	n/a
<a href="#">HR-Y83PFN-01</a>	B 8.03	14.4 (65)	17.5 (51)	31.9	8.6	n/a
<a href="#">HR-GTY8WL-01</a>	B 8.04	24.6 (65)	19.0 (51)	43.5	7.9	n/a
<a href="#">HR-E1DI42-01</a>	B 8.05	20.4 (65)	44.0 (51)	64.4	6.8	n/a
<a href="#">HR-JKKEJV-01</a>	B 8.06	25.5 (65)	46.5 (51)	72.1	6.4	n/a
<a href="#">HR-983CXP-01</a>	B 8.07	32.1 (65)	32.7 (51)	64.8	6.8	n/a



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<a href="#">HR-4KPW16-01</a>	B 8.08	15.4 (65)	18.5 (51)	33.9	8.4	n/a
<a href="#">HR-KGWOWK-01</a>	B 8.09	9.4 (65)	22.3 (51)	31.7	8.6	n/a
<a href="#">HR-7UL9AW-01</a>	B 8.10	6.6 (65)	24.3 (51)	30.9	8.6	n/a
<a href="#">HR-4GXV4Z-01</a>	B 9.01	29.2 (65)	14.5 (51)	43.7	7.9	n/a
<a href="#">HR-2G2OQQ-01</a>	B 9.02	36.0 (65)	14.1 (51)	50.1	7.5	n/a
<a href="#">HR-UGXPZH-01</a>	B 9.03	15.6 (65)	17.2 (51)	32.9	8.5	n/a
<a href="#">HR-VJI7UQ-01</a>	B 9.04	30.1 (65)	18.7 (51)	48.8	7.6	n/a
<a href="#">HR-KWU0PT-01</a>	B 9.05	36.0 (65)	28.7 (51)	64.8	6.8	n/a
<a href="#">HR-TJ54LL-01</a>	B 9.06	41.5 (65)	29.2 (51)	70.7	6.4	n/a
<a href="#">HR-8OZK6N-01</a>	B 9.07	32.3 (65)	32.9 (51)	65.2	6.7	n/a
<a href="#">HR-XXF6JW-01</a>	B 9.08	16.9 (65)	18.6 (51)	35.5	8.3	n/a
<a href="#">HR-EB911D-01</a>	B 9.09	10.5 (65)	21.7 (51)	32.2	8.5	n/a
<a href="#">HR-ASK7B2-01</a>	B 9.10	7.8 (65)	23.9 (51)	31.8	8.6	n/a
<a href="#">HR-R0MVNG-01</a>	B G.01	36.7 (65)	21.3 (51)	58.0	7.1	n/a
<a href="#">HR-AHZUS1-01</a>	B G.02	32.3 (65)	24.1 (51)	56.4	7.2	n/a
<a href="#">HR-2HT1F5-01</a>	B G.03	41.0 (65)	16.4 (51)	57.5	7.1	n/a
<a href="#">HR-DF1ZT7-01</a>	C 1.01	54.2 (65)	9.8 (51)	64.1	6.8	n/a
<a href="#">HR-XIOXZH-01</a>	C 2.01	40.1 (65)	17.3 (51)	57.4	7.1	n/a
<a href="#">HR-0YPFL6-01</a>	C 2.02	14.4 (65)	20.9 (51)	35.3	8.4	n/a
<a href="#">HR-C5Q950-01</a>	C 2.03	5.0 (65)	8.9 (51)	13.9	9.6	n/a
<a href="#">HR-J0CVNA-01</a>	C 2.04	23.0 (65)	13.7 (51)	36.7	8.3	n/a
<a href="#">HR-QBXX7X-01</a>	C 2.05	13.6 (65)	13.3 (51)	26.9	8.8	n/a
<a href="#">HR-3LRPBK-01</a>	C 2.06	2.1 (65)	11.0 (51)	13.1	9.7	n/a
<a href="#">HR-NJA7Z0-01</a>	C 2.07	22.3 (65)	19.2 (51)	41.5	7.9	n/a
<a href="#">HR-9DBXL6-01</a>	C 2.08	40.1 (65)	19.0 (51)	59.0	7.1	n/a
<a href="#">HR-A1ROZ5-01</a>	C 2.09	21.3 (65)	10.5 (51)	31.8	8.6	n/a
<a href="#">HR-DX13X1-01</a>	C 2.10	23.8 (65)	11.3 (51)	35.0	8.4	n/a
<a href="#">HR-GZM3IX-01</a>	C 3.01	45.3 (65)	17.8 (51)	63.2	6.8	n/a
<a href="#">HR-7HNGDS-01</a>	C 3.02	26.1 (65)	21.7 (51)	47.8	7.7	n/a

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<a href="#">HR-LZEYOS-01</a>	C 3.03	6.3 (65)	9.6 (51)	15.9	9.4	n/a
<a href="#">HR-YFXJSE-01</a>	C 3.04	27.7 (65)	13.6 (51)	41.4	7.9	n/a
<a href="#">HR-FPT7A7-01</a>	C 3.05	19.3 (65)	12.3 (51)	31.6	8.6	n/a
<a href="#">HR-9FE2Y2-01</a>	C 3.06	2.4 (65)	12.6 (51)	15.0	9.4	n/a
<a href="#">HR-N5LPN9-01</a>	C 3.07	28.1 (65)	19.0 (51)	47.1	7.7	n/a
<a href="#">HR-8YUKYO-01</a>	C 3.08	51.7 (65)	17.8 (51)	69.5	6.5	n/a
<a href="#">HR-DEO756-01</a>	C 3.09	22.4 (65)	11.1 (51)	33.5	8.4	n/a
<a href="#">HR-FQJBFY-01</a>	C 3.10	28.4 (65)	11.3 (51)	39.7	8.1	n/a
<a href="#">HR-PUAQTG-01</a>	C 4.01	36.3 (65)	9.7 (51)	46.1	7.7	n/a
<a href="#">HR-E4F7OQ-01</a>	C 4.02	9.8 (65)	10.4 (51)	20.1	9.2	n/a
<a href="#">HR-IC92V2-01</a>	C 4.03	18.1 (65)	14.9 (51)	33.0	8.4	n/a
<a href="#">HR-G6ZGWE-01</a>	C 4.04	18.1 (65)	11.5 (51)	29.6	8.7	n/a
<a href="#">HR-XYNBKT-01</a>	C 4.05	20.8 (65)	15.6 (51)	36.4	8.3	n/a
<a href="#">HR-HIO018-01</a>	C 4.06	40.7 (65)	14.9 (51)	55.6	7.2	n/a
<a href="#">HR-FB9LHL-01</a>	C 4.07	27.3 (65)	8.7 (51)	36.1	8.3	n/a
<a href="#">HR-Q4IE9A-01</a>	C 5.01	33.4 (65)	9.6 (51)	43.0	7.9	n/a
<a href="#">HR-EAHT8P-01</a>	C 5.02	9.6 (65)	10.1 (51)	19.7	9.2	n/a
<a href="#">HR-GHBFXN-01</a>	C 5.03	19.0 (65)	14.7 (51)	33.7	8.4	n/a
<a href="#">HR-18P3VO-01</a>	C 5.04	18.8 (65)	11.2 (51)	30.0	8.7	n/a
<a href="#">HR-SA5UWR-01</a>	C 5.05	20.1 (65)	15.7 (51)	35.8	8.3	n/a
<a href="#">HR-I8I0DC-01</a>	C 5.06	39.7 (65)	15.5 (51)	55.3	7.3	n/a
<a href="#">HR-GOP1X4-01</a>	C 5.07	28.3 (65)	8.4 (51)	36.7	8.3	n/a
<a href="#">HR-DI7L6F-01</a>	C 6.01	37.6 (65)	9.5 (51)	47.2	7.7	n/a
<a href="#">HR-CU47V0-01</a>	C 6.02	9.8 (65)	10.2 (51)	19.9	9.2	n/a
<a href="#">HR-MIBGDF-01</a>	C 6.03	19.9 (65)	14.6 (51)	34.5	8.4	n/a
<a href="#">HR-0YZ55E-01</a>	C 6.04	19.4 (65)	11.6 (51)	31.0	8.6	n/a
<a href="#">HR-1GJLH1-01</a>	C 6.05	29.4 (65)	13.9 (51)	43.3	7.9	n/a
<a href="#">HR-JWVZS-01</a>	C 6.06	52.3 (65)	14.6 (51)	66.8	6.7	n/a

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<a href="#">HR-F0H5T3-01</a>	C 6.07	29.6 (65)	8.7 (51)	38.2	8.2	n/a
<a href="#">HR-SS9S4Z-01</a>	C 7.01	35.7 (65)	9.2 (51)	44.9	7.8	n/a
<a href="#">HR-FBBL5P-01</a>	C 7.02	9.8 (65)	10.0 (51)	19.8	9.2	n/a
<a href="#">HR-2CNMLL-01</a>	C 7.03	20.2 (65)	14.2 (51)	34.3	8.4	n/a
<a href="#">HR-D7YILD-01</a>	C 7.04	21.1 (65)	12.4 (51)	33.5	8.4	n/a
<a href="#">HR-2IYO4V-01</a>	C 8.01	46.4 (65)	9.5 (51)	55.9	7.2	n/a
<a href="#">HR-9ZGOUE-01</a>	C 8.02	16.1 (65)	9.9 (51)	26.0	8.8	n/a
<a href="#">HR-0A6Y99-01</a>	C 8.03	30.7 (65)	14.0 (51)	44.7	7.8	n/a
<a href="#">HR-7HNPC3-01</a>	C 8.04	31.4 (65)	12.3 (51)	43.6	7.9	n/a
<a href="#">HR-MGEOKJ-01</a>	C 8.05	53.2 (65)	10.1 (51)	63.3	6.8	n/a
<a href="#">HR-S0KI34-01</a>	C G01	48.8 (65)	12.2 (51)	61.0	6.9	n/a
<a href="#">HR-FO8PVQ-01</a>	C G02	26.9 (65)	17.7 (51)	44.6	7.8	n/a
<a href="#">HR-91RVPC-01</a>	C G03	10.2 (65)	10.8 (51)	21.0	9.1	n/a
<a href="#">HR-1YQEGJ-01</a>	C G04	9.5 (65)	11.1 (51)	20.6	9.2	n/a
<a href="#">HR-3MNX6F-01</a>	C G05	11.8 (65)	12.6 (51)	24.4	8.9	n/a
<a href="#">HR-FAA2E5-01</a>	C G06	17.9 (65)	10.7 (51)	28.7	8.7	n/a
<a href="#">HR-YOVMOG-01</a>	C G07	29.3 (65)	9.2 (51)	38.5	8.2	n/a
<a href="#">HR-EYFVF5-01</a>	C G08	38.9 (65)	27.6 (51)	66.5	6.7	n/a
<a href="#">HR-W3O6P6-01</a>	C G09	48.3 (65)	28.0 (51)	76.3	6.2	n/a
<a href="#">HR-1KSO2P-01</a>	C G10	46.1 (65)	8.9 (51)	55.0	7.3	n/a
<a href="#">HR-8OMS6L-01</a>	C G11	42.2 (65)	14.5 (51)	56.7	7.2	n/a
<a href="#">HR-G6MK5L-01</a>	D101	27.9 (65)	5.2 (51)	33.1	8.4	n/a
<a href="#">HR-VP7LZ5-01</a>	D102	15.3 (65)	9.3 (51)	24.6	8.9	n/a
<a href="#">HR-MH7CUE-01</a>	D103	18.5 (65)	20.0 (51)	38.6	8.2	n/a
<a href="#">HR-9YOB43-01</a>	D104	38.2 (65)	21.4 (51)	59.6	7.0	n/a
<a href="#">HR-N6UOT9-01</a>	D105	42.9 (65)	9.1 (51)	52.0	7.4	n/a
<a href="#">HR-ALBA07-01</a>	D201	45.3 (65)	8.6 (51)	54.0	7.3	n/a
<a href="#">HR-10SFSA-01</a>	D202	20.4 (65)	12.5 (51)	32.9	8.5	n/a



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<a href="#">HR-5INX62-01</a>	D203	14.9 (65)	9.0 (51)	23.8	8.9	n/a
<a href="#">HR-LT25DQ-01</a>	D204	15.4 (65)	30.6 (51)	46.0	7.8	n/a
<a href="#">HR-0495CC-01</a>	D205	10.9 (65)	20.3 (51)	31.1	8.6	n/a
<a href="#">HR-1DAYIA-01</a>	D206	1.4 (65)	10.7 (51)	12.0	9.7	n/a
<a href="#">HR-46DFIK-01</a>	D207	39.7 (65)	28.4 (51)	68.1	6.6	n/a
<a href="#">HR-1HQZ4F-01</a>	D208	44.0 (65)	31.7 (51)	75.7	6.2	n/a
<a href="#">HR-UMPTN9-01</a>	D209	23.7 (65)	13.1 (51)	36.8	8.3	n/a
<a href="#">HR-2CQRI9-01</a>	D210	25.2 (65)	10.8 (51)	36.0	8.3	n/a
<a href="#">HR-MSBITL-01</a>	D301	50.2 (65)	10.9 (51)	61.0	6.9	n/a
<a href="#">HR-KGTFXS-01</a>	D302	40.9 (65)	11.2 (51)	52.1	7.4	n/a
<a href="#">HR-75I8ND-01</a>	D303	16.3 (65)	8.9 (51)	25.2	8.9	n/a
<a href="#">HR-9E2WC3-01</a>	D304	17.2 (65)	30.8 (51)	48.0	7.7	n/a
<a href="#">HR-0DX021-01</a>	D305	12.7 (65)	20.8 (51)	33.5	8.4	n/a
<a href="#">HR-QMQPZ5-01</a>	D306	20.0 (65)	10.9 (51)	30.9	8.6	n/a
<a href="#">HR-MO2E3A-01</a>	D307	51.7 (65)	12.6 (51)	64.4	6.8	n/a
<a href="#">HR-37F8MK-01</a>	D308	26.0 (65)	12.1 (51)	38.1	8.2	n/a
<a href="#">HR-NYON4Y-01</a>	D401	41.1 (65)	8.9 (51)	49.9	7.6	n/a
<a href="#">HR-A6P5AM-01</a>	D402	7.5 (65)	9.1 (51)	16.5	9.4	n/a
<a href="#">HR-WRZPR2-01</a>	D403	18.4 (65)	30.2 (51)	48.5	7.6	n/a
<a href="#">HR-K78D22-01</a>	D404	24.1 (65)	13.1 (51)	37.2	8.2	n/a
<a href="#">HR-KFQPNH-01</a>	D501	40.7 (65)	9.1 (51)	49.8	7.6	n/a
<a href="#">HR-CAFFIT-01</a>	D502	7.0 (65)	9.4 (51)	16.4	9.4	n/a
<a href="#">HR-81525G-01</a>	D503	17.9 (65)	30.5 (51)	48.4	7.6	n/a
<a href="#">HR-RA6X6D-01</a>	D504	19.3 (65)	15.9 (51)	35.1	8.4	n/a
<a href="#">HR-105VM2-01</a>	D505	44.4 (65)	34.4 (51)	78.7	6.0	n/a
<a href="#">HR-NYQQG0-01</a>	D601	55.2 (65)	8.8 (51)	64.0	6.8	n/a
<a href="#">HR-XHDR6E-01</a>	D602	15.0 (65)	9.1 (51)	24.1	8.9	n/a
<a href="#">HR-8JQUD8-01</a>	D603	27.3 (65)	27.9 (51)	55.2	7.3	n/a
<a href="#">HR-6YD2FW-01</a>	D604	29.2 (65)	15.8 (51)	45.0	7.8	n/a



## Summary of all dwellings

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<a href="#">HR-FJJNRE-01</a>	D605	41.7 (65)	18.5 (51)	60.2	6.9	n/a
<a href="#">HR-4KG6EP-01</a>	DG01	41.8 (65)	10.2 (51)	52.0	7.4	n/a
<a href="#">HR-IQ9VZ9-01</a>	DG02	46.1 (65)	10.9 (51)	57.0	7.2	n/a
<a href="#">HR-C9XX10-01</a>	DG03	13.5 (65)	10.6 (51)	24.0	8.9	n/a
<a href="#">HR-EV7R42-01</a>	DG04	10.8 (65)	11.3 (51)	22.1	9.1	n/a
<a href="#">HR-ILP5QT-01</a>	DG05	14.1 (65)	11.9 (51)	26.0	8.8	n/a
<a href="#">HR-U97QH3-01</a>	DG06	12.5 (65)	18.1 (51)	30.6	8.6	n/a
<a href="#">HR-AIZMMX-01</a>	DG07	54.0 (65)	22.0 (51)	76.0	6.2	n/a
<a href="#">HR-KG0TXE-01</a>	E1001	37.0 (65)	40.7 (51)	77.7	6.1	n/a
<a href="#">HR-WCU979-01</a>	E1002	50.2 (65)	25.1 (51)	75.3	6.2	n/a
<a href="#">HR-BSGO9V-01</a>	E1003	20.6 (65)	21.2 (51)	41.8	7.9	n/a
<a href="#">HR-BXKCI7-01</a>	E1004	55.0 (65)	22.5 (51)	77.5	6.1	n/a
<a href="#">HR-3C87MR-01</a>	E1005	18.1 (65)	40.6 (51)	58.7	7.1	n/a
<a href="#">HR-P2NQC�-01</a>	E1006	21.2 (65)	22.1 (51)	43.3	7.9	n/a
<a href="#">HR-T3SCZE-01</a>	E101	29.7 (65)	34.4 (51)	64.1	6.8	n/a
<a href="#">HR-GITE25-01</a>	E102	22.7 (65)	16.0 (51)	38.7	8.1	n/a
<a href="#">HR-N1C5TR-01</a>	E103	33.3 (65)	33.5 (51)	66.8	6.7	n/a
<a href="#">HR-DUZXD5-01</a>	E104	20.0 (65)	44.1 (51)	64.2	6.8	n/a
<a href="#">HR-8W1UT5-01</a>	E105	10.1 (65)	22.2 (51)	32.4	8.5	n/a
<a href="#">HR-PUGJ14-01</a>	E106	27.9 (65)	25.1 (51)	53.0	7.4	n/a
<a href="#">HR-DTBF5D-01</a>	E107	39.4 (65)	39.4 (51)	78.8	6.0	n/a
<a href="#">HR-IH7YZJ-01</a>	E108	49.4 (65)	24.2 (51)	73.7	6.3	n/a
<a href="#">HR-35JQKW-01</a>	E109	17.1 (65)	25.8 (51)	42.9	7.9	n/a
<a href="#">HR-OBTWV6-01</a>	E201	33.8 (65)	33.0 (51)	66.8	6.7	n/a
<a href="#">HR-DRQPOI-01</a>	E202	34.8 (65)	18.2 (51)	53.0	7.4	n/a
<a href="#">HR-6DEI8B-01</a>	E203	39.0 (65)	33.7 (51)	72.7	6.4	n/a
<a href="#">HR-AU0T7B-01</a>	E204	23.6 (65)	44.0 (51)	67.6	6.6	n/a
<a href="#">HR-KHP3GS-01</a>	E205	11.9 (65)	22.7 (51)	34.6	8.4	n/a
<a href="#">HR-5IQ9XN-01</a>	E206	26.0 (65)	27.4 (51)	53.4	7.4	n/a

## Summary of all dwellings

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<a href="#">HR-97UAVY-01</a>	E207	18.9 (65)	50.0 (51)	68.9	6.6	n/a
<a href="#">HR-ZHY0MO-01</a>	E208	26.2 (65)	35.6 (51)	61.8	6.9	n/a
<a href="#">HR-NCSLY6-01</a>	E209	30.6 (65)	37.2 (51)	67.8	6.6	n/a
<a href="#">HR-LTJ89G-01</a>	E210	20.4 (65)	19.5 (51)	39.9	8.1	n/a
<a href="#">HR-O1PQVE-01</a>	E211	8.0 (65)	22.3 (51)	30.3	8.6	n/a
<a href="#">HR-CMG3L6-01</a>	E212	12.9 (65)	14.5 (51)	27.4	8.8	n/a
<a href="#">HR-Y54I3T-01</a>	E301	12.1 (65)	46.6 (51)	58.7	7.1	n/a
<a href="#">HR-9QV6J4-01</a>	E302	33.2 (65)	36.0 (51)	69.1	6.5	n/a
<a href="#">HR-84A1TR-01</a>	E303	20.1 (65)	28.4 (51)	48.5	7.6	n/a
<a href="#">HR-N9KTHU-01</a>	E304	24.9 (65)	30.4 (51)	55.4	7.3	n/a
<a href="#">HR-CZY58T-01</a>	E305	14.7 (65)	50.3 (51)	64.9	6.8	n/a
<a href="#">HR-IDWZ6O-01</a>	E306	24.4 (65)	43.1 (51)	67.5	6.6	n/a
<a href="#">HR-DPTLDZ-01</a>	E307	35.8 (65)	29.6 (51)	65.4	6.7	n/a
<a href="#">HR-U5HYP8-01</a>	E308	22.6 (65)	19.1 (51)	41.8	7.9	n/a
<a href="#">HR-P2P2XA-01</a>	E309	8.6 (65)	26.3 (51)	34.9	8.4	n/a
<a href="#">HR-AJHJWH-01</a>	E310	16.4 (65)	19.2 (51)	35.6	8.3	n/a
<a href="#">HR-69GOJL-01</a>	E401	16.4 (65)	38.0 (51)	54.5	7.3	n/a
<a href="#">HR-292WG9-01</a>	E402	36.5 (65)	32.6 (51)	69.1	6.5	n/a
<a href="#">HR-HLKFL4-01</a>	E403	21.2 (65)	34.4 (51)	55.6	7.2	n/a
<a href="#">HR-EHKQO7-01</a>	E404	32.6 (65)	32.5 (51)	65.1	6.7	n/a
<a href="#">HR-XLQY5Q-01</a>	E405	16.9 (65)	49.8 (51)	66.7	6.7	n/a
<a href="#">HR-361E1E-01</a>	E406	23.8 (65)	44.0 (51)	67.8	6.6	n/a
<a href="#">HR-9JGUOE-01</a>	E407	37.1 (65)	35.3 (51)	72.4	6.4	n/a
<a href="#">HR-0JOT86-01</a>	E408	17.4 (65)	14.7 (51)	32.1	8.5	n/a
<a href="#">HR-R8ONU-01</a>	E409	10.5 (65)	30.0 (51)	40.5	8.0	n/a
<a href="#">HR-A9BP3D-01</a>	E410	5.6 (65)	21.8 (51)	27.4	8.8	n/a
<a href="#">HR-1A486O-01</a>	E501	16.9 (65)	37.5 (51)	54.3	7.3	n/a
<a href="#">HR-YK1CJN-01</a>	E502	37.1 (65)	31.6 (51)	68.7	6.6	n/a
<a href="#">HR-JUM68P-01</a>	E503	21.7 (65)	34.0 (51)	55.7	7.2	n/a

## Summary of all dwellings

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<a href="#">HR-UN65H4-01</a>	E504	33.2 (65)	32.1 (51)	65.3	6.7	n/a
<a href="#">HR-LJX4UF-01</a>	E505	15.3 (65)	49.8 (51)	65.2	6.7	n/a
<a href="#">HR-CVIAF0-01</a>	E506	21.7 (65)	46.9 (51)	68.5	6.6	n/a
<a href="#">HR-6AEO3K-01</a>	E507	36.4 (65)	35.5 (51)	71.9	6.4	n/a
<a href="#">HR-EMD5ZU-01</a>	E508	16.3 (65)	15.3 (51)	31.6	8.6	n/a
<a href="#">HR-EPSH1Z-01</a>	E509	10.7 (65)	29.6 (51)	40.3	8.0	n/a
<a href="#">HR-E54GHP-01</a>	E510	5.5 (65)	22.2 (51)	27.7	8.8	n/a
<a href="#">HR-UZ6CMV-01</a>	E601	17.1 (65)	37.0 (51)	54.1	7.3	n/a
<a href="#">HR-KH1HPC-01</a>	E602	37.6 (65)	31.2 (51)	68.8	6.6	n/a
<a href="#">HR-07PI5X-01</a>	E603	22.2 (65)	34.2 (51)	56.4	7.2	n/a
<a href="#">HR-PECJNW-01</a>	E604	33.8 (65)	32.1 (51)	65.9	6.7	n/a
<a href="#">HR-F8KXCV-01</a>	E605	15.8 (65)	49.6 (51)	65.4	6.7	n/a
<a href="#">HR-8BN560-01</a>	E606	20.1 (65)	46.4 (51)	66.5	6.7	n/a
<a href="#">HR-PJH7II-01</a>	E607	36.7 (65)	35.5 (51)	72.2	6.4	n/a
<a href="#">HR-CWTI57-01</a>	E608	16.3 (65)	15.3 (51)	31.6	8.6	n/a
<a href="#">HR-C8TR05-01</a>	E609	11.1 (65)	29.3 (51)	40.3	8.0	n/a
<a href="#">HR-9CGPSV-01</a>	E610	5.4 (65)	23.2 (51)	28.6	8.7	n/a
<a href="#">HR-761LJ5-01</a>	E701	17.5 (65)	36.0 (51)	53.5	7.4	n/a
<a href="#">HR-06WI2S-01</a>	E702	38.0 (65)	30.5 (51)	68.5	6.6	n/a
<a href="#">HR-NAM7N5-01</a>	E703	22.4 (65)	34.3 (51)	56.7	7.2	n/a
<a href="#">HR-LMNN9C-01</a>	E704	34.2 (65)	31.6 (51)	65.9	6.7	n/a
<a href="#">HR-5Q5ME8-01</a>	E705	15.3 (65)	50.2 (51)	65.5	6.7	n/a
<a href="#">HR-9MP39J-01</a>	E706	20.4 (65)	47.4 (51)	67.8	6.6	n/a
<a href="#">HR-K1Q5E3-01</a>	E707	37.2 (65)	35.1 (51)	72.3	6.4	n/a
<a href="#">HR-G5FY34-01</a>	E708	16.6 (65)	14.4 (51)	31.0	8.6	n/a
<a href="#">HR-8IV5PF-01</a>	E709	11.3 (65)	28.2 (51)	39.6	8.1	n/a
<a href="#">HR-OA06S2-01</a>	E710	5.6 (65)	22.7 (51)	28.3	8.7	n/a
<a href="#">HR-SCNUHZ-01</a>	E801	24.2 (65)	33.1 (51)	57.3	7.1	n/a
<a href="#">HR-I4RXE0-01</a>	E802	38.4 (65)	30.4 (51)	68.8	6.6	n/a

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<a href="#">HR-0KDL8Q-01</a>	E803	24.3 (65)	32.1 (51)	56.4	7.2	n/a
<a href="#">HR-7TDKG2-01</a>	E804	33.2 (65)	30.7 (51)	63.9	6.8	n/a
<a href="#">HR-CE885T-01</a>	E805	16.5 (65)	50.0 (51)	66.5	6.7	n/a
<a href="#">HR-IWK6AJ-01</a>	E806	20.8 (65)	47.1 (51)	67.9	6.6	n/a
<a href="#">HR-I0BS6F-01</a>	E807	37.5 (65)	34.9 (51)	72.4	6.4	n/a
<a href="#">HR-QC2ZK0-01</a>	E808	17.1 (65)	14.9 (51)	32.0	8.6	n/a
<a href="#">HR-2NA6MM-01</a>	E809	11.6 (65)	30.3 (51)	41.9	7.9	n/a
<a href="#">HR-C8VD2X-01</a>	E810	5.7 (65)	22.3 (51)	28.0	8.7	n/a
<a href="#">HR-1ZH1CO-01</a>	E901	24.2 (65)	33.2 (51)	57.5	7.1	n/a
<a href="#">HR-XV65JM-01</a>	E902	38.6 (65)	30.1 (51)	68.7	6.6	n/a
<a href="#">HR-5MH5DY-01</a>	E903	21.9 (65)	34.0 (51)	55.9	7.2	n/a
<a href="#">HR-R1KUZP-01</a>	E904	26.7 (65)	32.7 (51)	59.4	7.0	n/a
<a href="#">HR-24AP7V-01</a>	E905	29.9 (65)	45.9 (51)	75.8	6.2	n/a
<a href="#">HR-GZIK7Y-01</a>	E906	33.5 (65)	42.8 (51)	76.3	6.1	n/a
<a href="#">HR-R6JJ4H-01</a>	E907	35.1 (65)	37.3 (51)	72.4	6.4	n/a
<a href="#">HR-L10QV-01</a>	E908	17.6 (65)	15.5 (51)	33.1	8.4	n/a
<a href="#">HR-LFTGOD-01</a>	E909	12.9 (65)	28.3 (51)	41.1	7.9	n/a
<a href="#">HR-62MP0X-01</a>	E910	6.1 (65)	22.9 (51)	29.0	8.7	n/a
<a href="#">HR-6LU4XX-01</a>	EG02	24.9 (65)	16.6 (51)	41.4	7.9	n/a
<a href="#">HR-H8E4H1-01</a>	EG03	49.2 (65)	25.4 (51)	74.6	6.2	n/a
<a href="#">HR-3BCTHC-01</a>	EG04	19.6 (65)	44.0 (51)	63.6	6.8	n/a
<a href="#">HR-NU5P2I-01</a>	EG05	11.6 (65)	21.2 (51)	32.8	8.5	n/a
<a href="#">HR-LHER9R-01</a>	EG06	33.4 (65)	25.0 (51)	58.4	7.1	n/a
<a href="#">HR-98EV6X-01</a>	EGO1	31.4 (65)	35.3 (51)	66.7	6.7	n/a
<a href="#">HR-5BBVJW-01</a>	ELG01	53.8 (65)	23.7 (51)	77.4	6.1	n/a
<a href="#">HR-60YQBU-01</a>	ELG02	40.8 (65)	30.9 (51)	71.7	6.4	n/a
<a href="#">HR-9CI8Q2-01</a>	ELG03	29.2 (65)	29.4 (51)	58.6	7.1	n/a
<a href="#">HR-GJS6KC-01</a>	ELG04	56.4 (65)	20.5 (51)	77.0	6.1	n/a
<a href="#">HR-Z3OFS2-01</a>	F0101	26.1 (65)	19.9 (51)	45.9	7.8	n/a



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<a href="#">HR-4HKLKP-01</a>	F0102	18.0 (65)	8.2 (51)	26.2	8.8	n/a
<a href="#">HR-Q2MUQ8-01</a>	F0103	25.5 (65)	13.0 (51)	38.5	8.2	n/a
<a href="#">HR-CNEKTX-01</a>	F0104	28.6 (65)	10.1 (51)	38.7	8.1	n/a
<a href="#">HR-B88L6M-01</a>	F0105	17.5 (65)	7.6 (51)	25.1	8.9	n/a
<a href="#">HR-R6MICYQ-01</a>	F0106	41.6 (65)	12.5 (51)	54.1	7.3	n/a
<a href="#">HR-49MIMZ-01</a>	F0107	38.0 (65)	7.1 (51)	45.1	7.8	n/a
<a href="#">HR-SUF83P-01</a>	F0108	22.9 (65)	7.8 (51)	30.6	8.6	n/a
<a href="#">HR-X5LC00-01</a>	F0109	50.2 (65)	8.0 (51)	58.3	7.1	n/a
<a href="#">HR-R7NUBA-01</a>	F0110	38.1 (65)	8.9 (51)	47.0	7.7	n/a
<a href="#">HR-HBGE4M-01</a>	F0111	33.9 (65)	14.1 (51)	48.0	7.7	n/a
<a href="#">HR-MCXDBL-01</a>	F0112	20.6 (65)	26.8 (51)	47.4	7.7	n/a
<a href="#">HR-0OR59A-01</a>	F0113	49.0 (65)	12.1 (51)	61.1	6.9	n/a
<a href="#">HR-NEZ2LO-01</a>	F0201	35.4 (65)	15.8 (51)	51.1	7.4	n/a
<a href="#">HR-893E8W-01</a>	F0202	29.8 (65)	8.2 (51)	38.0	8.2	n/a
<a href="#">HR-13Y2LM-01</a>	F0203	36.2 (65)	8.9 (51)	45.1	7.8	n/a
<a href="#">HR-9K6R32-01</a>	F0204	29.4 (65)	9.1 (51)	38.5	8.2	n/a
<a href="#">HR-O5KC18-01</a>	F0205	14.0 (65)	6.2 (51)	20.2	9.2	n/a
<a href="#">HR-1U5MXM-01</a>	F0206	49.7 (65)	10.5 (51)	60.3	6.9	n/a
<a href="#">HR-GEHGLH-01</a>	F0207	40.1 (65)	7.2 (51)	47.3	7.7	n/a
<a href="#">HR-3E35M9-01</a>	F0208	19.6 (65)	6.7 (51)	26.3	8.8	n/a
<a href="#">HR-0TW3WZ-01</a>	F0209	61.4 (65)	6.6 (51)	68.0	6.6	n/a
<a href="#">HR-EYI684-01</a>	F0210	56.2 (65)	7.2 (51)	63.4	6.8	n/a
<a href="#">HR-YLK25A-01</a>	F0211	48.4 (65)	11.4 (51)	59.8	7.0	n/a
<a href="#">HR-TITI7A-01</a>	F0212	34.6 (65)	21.1 (51)	55.7	7.2	n/a
<a href="#">HR-OAO05A-01</a>	F0213	53.4 (65)	10.3 (51)	63.7	6.8	n/a
<a href="#">HR-3CWCA1-01</a>	F0301	24.6 (65)	11.6 (51)	36.2	8.3	n/a
<a href="#">HR-WJH6U0-01</a>	F0302	11.8 (65)	6.9 (51)	18.7	9.3	n/a
<a href="#">HR-2HWWKV-01</a>	F0303	20.3 (65)	10.1 (51)	30.4	8.6	n/a
<a href="#">HR-9IHXL-01</a>	F0304	22.7 (65)	9.3 (51)	32.0	8.5	n/a

## Summary of all dwellings

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<a href="#">HR-2AHR1X-01</a>	F0305	27.6 (65)	7.3 (51)	34.9	8.4	n/a
<a href="#">HR-XXXVYA-01</a>	F0306	43.7 (65)	10.6 (51)	54.3	7.3	n/a
<a href="#">HR-YLDULW-01</a>	F0307	35.5 (65)	7.5 (51)	43.0	7.9	n/a
<a href="#">HR-228XAY-01</a>	F0308	29.5 (65)	7.5 (51)	37.1	8.2	n/a
<a href="#">HR-4J1BV3-01</a>	F0309	49.3 (65)	6.8 (51)	56.1	7.2	n/a
<a href="#">HR-2ACXEI-01</a>	F0310	39.8 (65)	7.4 (51)	47.2	7.7	n/a
<a href="#">HR-VV0Z3S-01</a>	F0311	40.7 (65)	11.0 (51)	51.7	7.4	n/a
<a href="#">HR-BMVT83-01</a>	F0312	33.8 (65)	20.8 (51)	54.6	7.3	n/a
<a href="#">HR-5ACLIE-01</a>	F0313	49.5 (65)	13.6 (51)	63.1	6.8	n/a
<a href="#">HR-XMJGGL-01</a>	F0401	22.2 (65)	22.0 (51)	44.2	7.8	n/a
<a href="#">HR-3CS178-01</a>	F0402	7.6 (65)	15.1 (51)	22.7	9.0	n/a
<a href="#">HR-CO70YM-01</a>	F0403	20.4 (65)	9.8 (51)	30.3	8.6	n/a
<a href="#">HR-ZA3QJ5-01</a>	F0404	31.4 (65)	11.5 (51)	42.9	7.9	n/a
<a href="#">HR-SN8W91-01</a>	F0405	55.1 (65)	13.5 (51)	68.5	6.6	n/a
<a href="#">HR-BC9IF4-01</a>	F0406	58.0 (65)	14.8 (51)	72.8	6.3	n/a
<a href="#">HR-MOMUNS-01</a>	F0407	48.7 (65)	10.2 (51)	58.9	7.1	n/a
<a href="#">HR-W4DIE2-01</a>	F0408	24.4 (65)	8.7 (51)	33.0	8.4	n/a
<a href="#">HR-DV9D1F-01</a>	F0409	13.9 (65)	18.5 (51)	32.4	8.5	n/a
<a href="#">HR-50EQ41-01</a>	F0410	36.9 (65)	32.7 (51)	69.5	6.5	n/a
<a href="#">HR-0Y9DJC-01</a>	F0501	22.2 (65)	21.8 (51)	44.0	7.9	n/a
<a href="#">HR-4U4JOH-01</a>	F0502	9.8 (65)	10.7 (51)	20.5	9.2	n/a
<a href="#">HR-GTX6HO-01</a>	F0503	18.4 (65)	10.2 (51)	28.6	8.7	n/a
<a href="#">HR-YXCFH5-01</a>	F0504	26.5 (65)	11.4 (51)	37.9	8.2	n/a
<a href="#">HR-98IBT6-01</a>	F0505	50.8 (65)	12.0 (51)	62.8	6.9	n/a
<a href="#">HR-HL6GYI-01</a>	F0506	49.7 (65)	14.1 (51)	63.8	6.8	n/a
<a href="#">HR-H7MW2R-01</a>	F0507	42.1 (65)	10.2 (51)	52.3	7.4	n/a
<a href="#">HR-AGL26O-01</a>	F0508	18.9 (65)	8.3 (51)	27.1	8.8	n/a
<a href="#">HR-53JQ63-01</a>	F0509	12.0 (65)	17.9 (51)	29.9	8.7	n/a
<a href="#">HR-TQY40W-01</a>	F0510	34.9 (65)	32.3 (51)	67.2	6.6	n/a



## Summary of all dwellings

Certificate number and link	Unit Number	Heating load (load limit) (MJ/m <sup>2</sup> .yr)	Cooling load (load limit) (MJ/m <sup>2</sup> .yr)	Total load (MJ/m <sup>2</sup> .yr)	Star Rating	Whole of Home Rating
<a href="#">HR-T0K44L-01</a>	F0601	20.5 (65)	23.1 (51)	43.6	7.9	n/a
<a href="#">HR-1H5QMY-01</a>	F0602	8.4 (65)	11.0 (51)	19.4	9.2	n/a
<a href="#">HR-QGLMP9-01</a>	F0603	17.1 (65)	10.7 (51)	27.9	8.8	n/a
<a href="#">HR-QGD8D8-01</a>	F0604	25.9 (65)	11.8 (51)	37.8	8.2	n/a
<a href="#">HR-4FNLJM-01</a>	F0605	49.3 (65)	12.2 (51)	61.5	6.9	n/a
<a href="#">HR-GMW8P7-01</a>	F0606	48.3 (65)	14.0 (51)	62.3	6.9	n/a
<a href="#">HR-E3XHQF-01</a>	F0607	40.4 (65)	10.7 (51)	51.0	7.4	n/a
<a href="#">HR-4R2JTC-01</a>	F0608	16.1 (65)	8.4 (51)	24.5	8.9	n/a
<a href="#">HR-9WLYUD-01</a>	F0609	10.0 (65)	18.2 (51)	28.2	8.7	n/a
<a href="#">HR-UYKIRR-01</a>	F0610	34.9 (65)	32.0 (51)	66.9	6.7	n/a
<a href="#">HR-49EHEV-01</a>	F0701	21.2 (65)	21.9 (51)	43.2	7.9	n/a
<a href="#">HR-GAH6RF-01</a>	F0702	7.6 (65)	11.2 (51)	18.9	9.3	n/a
<a href="#">HR-KOJRGJ-01</a>	F0703	16.5 (65)	10.8 (51)	27.3	8.8	n/a
<a href="#">HR-P1G8G1-01</a>	F0704	25.2 (65)	11.6 (51)	36.8	8.3	n/a
<a href="#">HR-WOENP3-01</a>	F0705	49.5 (65)	12.4 (51)	61.9	6.9	n/a
<a href="#">HR-36VAC8-01</a>	F0706	48.7 (65)	14.1 (51)	62.9	6.9	n/a
<a href="#">HR-B13NJQ-01</a>	F0707	37.8 (65)	10.7 (51)	48.4	7.6	n/a
<a href="#">HR-N9RVIT-01</a>	F0708	14.2 (65)	8.5 (51)	22.8	9.0	n/a
<a href="#">HR-HUR8GT-01</a>	F0709	9.0 (65)	18.0 (51)	27.0	8.8	n/a
<a href="#">HR-4TSGZU-01</a>	F0710	34.9 (65)	31.8 (51)	66.7	6.7	n/a
<a href="#">HR-DZ6SQB-01</a>	F0801	21.2 (65)	22.2 (51)	43.4	7.9	n/a
<a href="#">HR-61C9HC-01</a>	F0802	6.7 (65)	11.8 (51)	18.5	9.3	n/a
<a href="#">HR-SGXVAX-01</a>	F0803	15.3 (65)	11.0 (51)	26.3	8.8	n/a
<a href="#">HR-XAH8AR-01</a>	F0804	23.9 (65)	12.7 (51)	36.6	8.3	n/a
<a href="#">HR-YCA223-01</a>	F0805	48.5 (65)	12.7 (51)	61.2	6.9	n/a
<a href="#">HR-KF3QZ6-01</a>	F0806	48.8 (65)	13.8 (51)	62.6	6.9	n/a
<a href="#">HR-DF2PPZ-01</a>	F0807	34.6 (65)	12.9 (51)	47.5	7.7	n/a
<a href="#">HR-KO2BRY-01</a>	F0808	13.7 (65)	8.5 (51)	22.2	9.1	n/a
<a href="#">HR-4QC16K-01</a>	F0809	8.4 (65)	18.0 (51)	26.3	8.8	n/a

## Summary of all dwellings

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<a href="#">HR-6ZKMMM-01</a>	F0810	34.5 (65)	31.8 (51)	66.3	6.7	n/a
<a href="#">HR-VBYYCH-01</a>	F0901	23.6 (65)	21.1 (51)	44.7	7.8	n/a
<a href="#">HR-UIPNQV-01</a>	F0902	5.0 (65)	12.9 (51)	17.9	9.3	n/a
<a href="#">HR-TW0W40-01</a>	F0903	15.0 (65)	11.6 (51)	26.6	8.8	n/a
<a href="#">HR-4BJN6M-01</a>	F0904	23.2 (65)	14.0 (51)	37.2	8.2	n/a
<a href="#">HR-WQXMC4-01</a>	F0905	45.6 (65)	14.0 (51)	59.6	7.0	n/a
<a href="#">HR-MF3HM1-01</a>	F0906	47.9 (65)	15.3 (51)	63.2	6.8	n/a
<a href="#">HR-2WVETP-01</a>	F0907	33.4 (65)	14.6 (51)	48.0	7.7	n/a
<a href="#">HR-NB3W24-01</a>	F0908	13.3 (65)	8.8 (51)	22.2	9.1	n/a
<a href="#">HR-EKR4C7-01</a>	F0909	7.8 (65)	18.6 (51)	26.5	8.8	n/a
<a href="#">HR-O5BK8F-01</a>	F0910	33.9 (65)	31.6 (51)	65.5	6.7	n/a
<a href="#">HR-BZCS6S-01</a>	F1001	51.5 (65)	13.8 (51)	65.3	6.7	n/a
<a href="#">HR-NIA2GA-01</a>	F1002	12.6 (65)	14.9 (51)	27.5	8.8	n/a
<a href="#">HR-V5HPV1-01</a>	F1003	25.1 (65)	11.6 (51)	36.7	8.3	n/a
<a href="#">HR-96E1RE-01</a>	F1004	28.7 (65)	16.8 (51)	45.4	7.8	n/a
<a href="#">HR-L9DMTJ-01</a>	F1005	50.8 (65)	17.1 (51)	67.9	6.6	n/a
<a href="#">HR-71EEFD-01</a>	F1006	52.3 (65)	18.5 (51)	70.7	6.4	n/a
<a href="#">HR-SHM4YE-01</a>	F1007	33.3 (65)	17.3 (51)	50.5	7.5	n/a
<a href="#">HR-W6QEUY-01</a>	F1008	23.8 (65)	8.9 (51)	32.7	8.5	n/a
<a href="#">HR-PRFC3O-01</a>	F1009	10.6 (65)	17.9 (51)	28.5	8.7	n/a
<a href="#">HR-XMMJ23-01</a>	F1010	42.3 (65)	29.4 (51)	71.7	6.4	n/a
<a href="#">HR-EIDJDX-01</a>	FLG01	55.8 (65)	14.0 (51)	69.8	6.5	n/a
<a href="#">HR-56TBXR-01</a>	FLG02	31.4 (65)	20.7 (51)	52.1	7.4	n/a
<a href="#">HR-AX6I8X-01</a>	FLG03	42.5 (65)	13.6 (51)	56.1	7.2	n/a
<a href="#">HR-ZYTDHK-01</a>	FLG04	47.6 (65)	13.6 (51)	61.2	6.9	n/a
<a href="#">HR-A4JC4Y-01</a>	FLG05	50.4 (65)	17.0 (51)	67.3	6.6	n/a
<a href="#">HR-M43I7C-01</a>	FLG06	56.5 (65)	14.1 (51)	70.7	6.4	n/a
<a href="#">HR-98YIJN-01</a>	FUG01	51.7 (65)	12.7 (51)	64.4	6.8	n/a
<a href="#">HR-8FH6J1-01</a>	FUG02	38.9 (65)	7.5 (51)	46.4	7.7	n/a

## Summary of all dwellings

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<a href="#">HR-Z7WUGH-01</a>	FUG03	34.0 (65)	8.4 (51)	42.4	7.9	n/a
<a href="#">HR-TC46VI-01</a>	FUG04	37.2 (65)	8.0 (51)	45.2	7.8	n/a
<a href="#">HR-0VVQFK-01</a>	FUG05	55.8 (65)	6.3 (51)	62.1	6.9	n/a
<a href="#">HR-JNZ4YJ-01</a>	FUG06	47.3 (65)	13.1 (51)	60.4	6.9	n/a
<a href="#">HR-ZALW1I-01</a>	FUG07	40.6 (65)	9.2 (51)	49.8	7.6	n/a
<a href="#">HR-RD9155-01</a>	FUG08	58.0 (65)	6.3 (51)	64.2	6.8	n/a
<a href="#">HR-11YXXA-01</a>	FUG09	61.1 (65)	9.0 (51)	70.1	6.4	n/a
<a href="#">HR-ID6UO8-01</a>	FUG10	63.5 (65)	7.4 (51)	70.9	6.4	n/a
<a href="#">HR-NFH0SV-01</a>	FUG11	53.0 (65)	12.7 (51)	65.7	6.7	n/a
<a href="#">HR-V6G0YM-01</a>	FUG12	41.4 (65)	21.5 (51)	62.9	6.9	n/a
<a href="#">HR-MIAEHV-01</a>	FUG13	60.3 (65)	9.9 (51)	70.2	6.4	n/a
Averages	533x (Total)	27.1	20.2	47.2	7.7	n/a
Maximum Loads and Minimum Ratings		63.5	50.4	78.8	6.0	n/a

## Explanatory notes

### About the ratings

The thermal performance star rating in this Certificate is the average rating of all NCC Class 2 dwellings in an apartment block. The Whole of Home performance rating in this Certificate is the lowest rating for the apartment block. Individual unit ratings are listed in the 'Summary of all dwellings' section of this Certificate.

NatHERS ratings use computer modelling to evaluate a home's energy efficiency and performance. They use localised climate data and standard assumptions on how people use their home to predict the energy loads and societal cost. The thermal performance star rating uses the home's building specifications, layout, orientation and fabric (i.e. walls, windows, floors, roofs and ceilings) to predict the heating and cooling energy loads. The Whole of Home performance rating uses information about the home's appliances and onsite energy production and storage to estimate the homes societal cost.

For more details about an individual dwelling's assessment, refer to the individual dwelling's NatHERS Certificate (accessible via link).

### Accredited Assessors

For high quality NatHERS Certificates, always use an accredited or licenced assessor registered with an Assessor Accrediting Organisation (AAO). AAOs have strict quality assurance processes, and professional development requirements ensuring consistently high standards for assessments.

Non-accredited assessors (Raters) have no ongoing training requirements and are not quality assured.

Licensed assessors in the Australian Capital Territory (ACT) can produce assessments for regulatory purposes only, using endorsed software, as listed on the ACT licensing register.

Any queries about this report should be directed to the assessor. If the assessor is unable to address questions or concerns, contact the AAO specified on the front of this certificate.

### Disclaimer

The NatHERS Certificate format is developed by the NatHERS Administrator. However, the content in certificates is entered by the assessor. It is the assessor's responsibility to use NatHERS accredited software correctly and follow the NatHERS Technical Note to produce a NatHERS Certificate.

The predicted annual energy use, cost and greenhouse gas emissions in this NatHERS Certificate are an estimate based on an assessment of the dwelling's design by the assessor. It is not a prediction of actual energy use, cost or emissions. The information and ratings may be used to compare how other dwellings are likely to perform when used in a similar way.

Information presented in this report relies on a range of standard assumptions (both embedded in NatHERS accredited software and made by the assessor who prepared this report), including assumptions about occupancy, behaviour, appliance performance, indoor air temperature and local climate.

Not all assumptions made by the assessor while using the NatHERS accredited software tool are presented in this report and further details or data files may be available from the assessor.