

Domestic Overheating (CIBSE TM59)

Project Details

Building Designer File (.tbd): Brise soleil_blinds_LWC_DSY1_2020High50.tbd

Simulation Results File (.tsd): Brise soleil_blinds_London_LWC_DSY1_2020High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	14	3285	32	11	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	6	3285	32	12	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	23	N/A	N/A	N/A	Pass
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	7	3285	32	10	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	7	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	10	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	1	3285	32	10	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	14	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	8	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	9	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	10	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	1	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	9	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	10	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

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Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	11	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	8	3285	32	11	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	7	3285	32	11	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	12	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	13	3285	32	12	Pass
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	15	3285	32	12	Pass
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	17	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	27	3285	32	11	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	7	3285	32	14	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	7	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	14	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	3	3285	32	14	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	9	3285	32	14	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	2	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	2	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	8	3285	32	15	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	7	3285	32	11	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	6	3285	32	11	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	25	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	3	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	16	3285	32	15	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	11	3285	32	25	Pass
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	12	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	12	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	13	3285	32	15	Pass

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Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	8	3285	32	13	Pass
15 - 2B4P - Dbl Bed	Bedroom	3672	110	25	3285	32	11	Pass
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	15	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	20	N/A	N/A	N/A	Pass
15 - 2B4P - Twn Bed	Bedroom	3672	110	13	3285	32	23	Pass
16 - 1B2P - Dbl Bed	Bedroom	3672	110	23	3285	32	23	Pass
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	22	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	27	3285	32	10	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	20	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	17	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	8	3285	32	23	Pass

*Zone name's that have an orange coloured font are bedrooms which do not have 24/7 365 days a year occupancy, as per the TM59 guidance.

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Project Details

Building Designer File (.tbd): Brise soleil_blinds_LWC_DSY2_2020High50.tbd

Simulation Results File (.tsd): Brise soleil_blinds_LWC_DSY2_2020High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	51	3285	32	42	Fail
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	30	3285	32	33	Fail
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	76	N/A	N/A	N/A	Fail
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	16	3285	32	37	Fail
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	26	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	24	3285	32	34	Fail
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	23	3285	32	41	Fail
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	56	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	9	3285	32	31	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	11	3285	32	38	Fail
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	15	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	13	3285	32	35	Fail
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	15	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	13	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	10	3285	32	33	Fail
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	10	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	12	3285	32	33	Fail
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	12	N/A	N/A	N/A	Pass

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Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	14	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	10	3285	32	45	Fail
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	11	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	43	3285	32	32	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	36	3285	32	50	Fail
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	55	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	46	3285	32	45	Fail
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	54	3285	32	35	Fail
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	54	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	66	3285	32	28	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	42	3285	32	40	Fail
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	31	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	61	N/A	N/A	N/A	Fail
11 - 2B4P - Twn Bed	Bedroom	3672	110	27	3285	32	44	Fail
12 - 2B4P - Dbl Bed	Bedroom	3672	110	37	3285	32	39	Fail
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	21	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	29	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	27	3285	32	43	Fail
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	42	3285	32	35	Fail
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	15	3285	32	34	Fail
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	73	N/A	N/A	N/A	Fail
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	24	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	45	3285	32	39	Fail
14 - 3B5P - Dbl Bed	Bedroom	3672	110	35	3285	32	60	Fail
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	45	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	41	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	42	3285	32	59	Fail

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Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	36	3285	32	43	Fail
15 - 2B4P - Dbl Bed	Bedroom	3672	110	69	3285	32	32	Pass
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	42	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	67	N/A	N/A	N/A	Fail
15 - 2B4P - Twn Bed	Bedroom	3672	110	39	3285	32	56	Fail
16 - 1B2P - Dbl Bed	Bedroom	3672	110	71	3285	32	65	Fail
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	74	N/A	N/A	N/A	Fail
17 - 2B3P - Dbl Bed	Bedroom	3672	110	80	3285	32	31	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	74	N/A	N/A	N/A	Fail
17 - 2B3P - Living	Living Room / Kitchen	1989	59	55	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	37	3285	32	51	Fail

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Project Details

Building Designer File (.tbd): Brise soleil_blinds_LWC_DSY3_2020High50.tbd

Simulation Results File (.tsd): Brise soleil_blinds_LWC_DSY3_2020High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	69	3285	32	43	Fail
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	60	3285	32	30	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	87	N/A	N/A	N/A	Fail
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	31	3285	32	36	Fail
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	37	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	30	3285	32	31	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	24	3285	32	34	Fail
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	68	N/A	N/A	N/A	Fail
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	9	3285	32	28	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	11	3285	32	29	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	14	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	15	3285	32	33	Fail
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	17	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	13	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	10	3285	32	24	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	12	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	13	3285	32	30	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	8	N/A	N/A	N/A	Pass

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Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	12	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	7	3285	32	30	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	7	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	68	3285	32	30	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	50	3285	32	45	Fail
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	73	N/A	N/A	N/A	Fail
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	64	3285	32	47	Fail
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	76	3285	32	36	Fail
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	72	N/A	N/A	N/A	Fail
10 - 3B5P - Sgl Bed	Bedroom	3672	110	95	3285	32	23	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	55	3285	32	49	Fail
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	48	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	67	N/A	N/A	N/A	Fail
11 - 2B4P - Twn Bed	Bedroom	3672	110	45	3285	32	39	Fail
12 - 2B4P - Dbl Bed	Bedroom	3672	110	56	3285	32	47	Fail
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	24	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	34	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	43	3285	32	37	Fail
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	60	3285	32	32	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	35	3285	32	25	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	84	N/A	N/A	N/A	Fail
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	39	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	63	3285	32	37	Fail
14 - 3B5P - Dbl Bed	Bedroom	3672	110	52	3285	32	52	Fail
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	62	N/A	N/A	N/A	Fail
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	53	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	61	3285	32	62	Fail

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14 - 3B5P - Twn Bed	Bedroom	3672	110	46	3285	32	41	Fail
15 - 2B4P - Dbl Bed	Bedroom	3672	110	80	3285	32	29	Pass
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	54	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	78	N/A	N/A	N/A	Fail
15 - 2B4P - Twn Bed	Bedroom	3672	110	51	3285	32	46	Fail
16 - 1B2P - Dbl Bed	Bedroom	3672	110	86	3285	32	65	Fail
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	87	N/A	N/A	N/A	Fail
17 - 2B3P - Dbl Bed	Bedroom	3672	110	85	3285	32	30	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	88	N/A	N/A	N/A	Fail
17 - 2B3P - Living	Living Room / Kitchen	1989	59	72	N/A	N/A	N/A	Fail
17 - 2B3P - Sgl Bed	Bedroom	3672	110	61	3285	32	45	Fail

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Project Details

Building Designer File (.tbd): Brise soleil_blinds_1.5kWCool_LWC_DSY1_2020High50.tbd

Simulation Results File (.tsd): Brise soleil_blinds_1.5kWCool_LWC_DSY1_2020High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	0	3285	32	0	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	10	N/A	N/A	N/A	Pass
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	7	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

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7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	4	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	6	3285	32	4	Pass
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	2	3285	32	4	Pass
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	7	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	5	3285	32	3	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	7	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	1	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	0	3285	32	2	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	7	3285	32	4	Pass
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	3	3285	32	2	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	0	3285	32	4	Pass
15 - 2B4P - Dbl Bed	Bedroom	3672	110	18	3285	32	6	Pass
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	12	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	18	N/A	N/A	N/A	Pass
15 - 2B4P - Twn Bed	Bedroom	3672	110	7	3285	32	6	Pass
16 - 1B2P - Dbl Bed	Bedroom	3672	110	9	3285	32	2	Pass
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	7	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	7	3285	32	3	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	0	3285	32	1	Pass

*Zone name's that have an orange coloured font are bedrooms which do not have 24/7 365 days a year occupancy, as per the TM59 guidance.

Domestic Overheating (CIBSE TM59)

Project Details

Building Designer File (.tbd): Brise soleil_blinds_1.5kWCool_DSY2_2020High50.tbd

Simulation Results File (.tsd): Brise soleil_blinds_1.5kWCool_DSY2_2020High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	1	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	0	3285	32	0	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	31	N/A	N/A	N/A	Pass
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	5	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	4	3285	32	0	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	8	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	15	Pass
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	6	3285	32	19	Pass
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	35	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	13	3285	32	11	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	1	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	5	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	8	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	2	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	7	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	0	3285	32	8	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	19	3285	32	26	Pass
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	25	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	27	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	34	3285	32	18	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	8	3285	32	17	Pass
15 - 2B4P - Dbl Bed	Bedroom	3672	110	58	3285	32	25	Pass
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	34	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	56	N/A	N/A	N/A	Pass
15 - 2B4P - Twn Bed	Bedroom	3672	110	24	3285	32	23	Pass
16 - 1B2P - Dbl Bed	Bedroom	3672	110	40	3285	32	12	Pass
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	37	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	5	3285	32	8	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	0	3285	32	1	Pass

*Zone name's that have an orange coloured font are bedrooms which do not have 24/7 365 days a year occupancy, as per the TM59 guidance.

Domestic Overheating (CIBSE TM59)

Project Details

Building Designer File (.tbd): Brise soleil_blinds_1.5kWCool_DSY3_2020High50.tbd

Simulation Results File (.tsd): Brise soleil_blinds_1.5kWCool_DSY3_2020High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	1	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	4	3285	32	2	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	67	N/A	N/A	N/A	Fail
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	4	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	27	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	15	3285	32	1	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	21	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	14	Pass
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	15	3285	32	15	Pass
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	53	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	27	3285	32	11	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	11	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	2	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	28	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	7	3285	32	6	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	22	3285	32	18	Pass
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	32	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	32	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	40	3285	32	16	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	0	3285	32	15	Pass
15 - 2B4P - Dbl Bed	Bedroom	3672	110	75	3285	32	18	Pass
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	43	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	65	N/A	N/A	N/A	Fail
15 - 2B4P - Twn Bed	Bedroom	3672	110	35	3285	32	19	Pass
16 - 1B2P - Dbl Bed	Bedroom	3672	110	36	3285	32	7	Pass
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	23	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	13	3285	32	11	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	0	3285	32	0	Pass

*Zone name's that have an orange coloured font are bedrooms which do not have 24/7 365 days a year occupancy, as per the TM59 guidance.

Domestic Overheating (CIBSE TM59)

Project Details

Building Designer File (.tbd): Brise soleil_external shutters_1.5kWCool_LWC_DSY1_2050High50.tbd

Simulation Results File (.tsd): Brise soleil_external shutters_1.5kWCool_LWC_DSY1_2050High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	0	3285	32	0	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	9	N/A	N/A	N/A	Pass
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	4	3285	32	1	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	8	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	2	Pass
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	2	Pass
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	6	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	3	3285	32	2	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	6	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	0	3285	32	0	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	8	3285	32	16	Pass
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	2	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	23	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	29	3285	32	14	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	0	3285	32	9	Pass
15 - 2B4P - Dbl Bed	Bedroom	3672	110	45	3285	32	15	Pass
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	18	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	34	N/A	N/A	N/A	Pass
15 - 2B4P - Twn Bed	Bedroom	3672	110	23	3285	32	17	Pass
16 - 1B2P - Dbl Bed	Bedroom	3672	110	3	3285	32	3	Pass
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	4	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	0	3285	32	0	Pass

*Zone name's that have an orange coloured font are bedrooms which do not have 24/7 365 days a year occupancy, as per the TM59 guidance.

Domestic Overheating (CIBSE TM59)

Project Details

Building Designer File (.tbd): Brise soleil_external shutters_1.5kWCool_LWC_DSY2_2050High50.tbd

Simulation Results File (.tsd): Brise soleil_external shutters_1.5kWCool_LWC_DSY2_2050High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	0	3285	32	0	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	14	Pass
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	19	Pass
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	0	3285	32	10	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	0	3285	32	0	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	18	3285	32	49	Fail
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	11	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	35	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	46	3285	32	35	Fail

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	4	3285	32	31	Pass
15 - 2B4P - Dbl Bed	Bedroom	3672	110	54	3285	32	40	Fail
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	34	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	48	N/A	N/A	N/A	Pass
15 - 2B4P - Twn Bed	Bedroom	3672	110	26	3285	32	42	Fail
16 - 1B2P - Dbl Bed	Bedroom	3672	110	25	3285	32	16	Pass
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	0	3285	32	0	Pass

*Zone name's that have an orange coloured font are bedrooms which do not have 24/7 365 days a year occupancy, as per the TM59 guidance.

Domestic Overheating (CIBSE TM59)

Project Details

Building Designer File (.tbd): Brise soleil_external shutters_1.5kWCool_LWC_DSY3_2050High50.tbd

Simulation Results File (.tsd): Brise soleil_external shutters_1.5kWCool_LWC_DSY3_2050High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	1	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	0	3285	32	2	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	27	N/A	N/A	N/A	Pass
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	10	3285	32	7	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	1	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	26	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	19	Pass
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	1	3285	32	24	Pass
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	1	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	8	3285	32	17	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	8	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	0	3285	32	1	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	35	3285	32	45	Fail
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	29	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	51	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	65	3285	32	38	Fail

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	0	3285	32	36	Fail
15 - 2B4P - Dbl Bed	Bedroom	3672	110	86	3285	32	43	Fail
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	56	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	69	N/A	N/A	N/A	Fail
15 - 2B4P - Twn Bed	Bedroom	3672	110	58	3285	32	47	Fail
16 - 1B2P - Dbl Bed	Bedroom	3672	110	15	3285	32	10	Pass
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	6	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	0	3285	32	0	Pass

*Zone name's that have an orange coloured font are bedrooms which do not have 24/7 365 days a year occupancy, as per the TM59 guidance.

Domestic Overheating (CIBSE TM59)

Project Details

Building Designer File (.tbd): Brise soleil_external shutters_1.5kWCool_LWC_DSY1_2080High50.tbd

Simulation Results File (.tsd): Brise soleil_external shutters_1.5kWCool_LWC_DSY1_2080High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	4	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	3	3285	32	0	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	25	N/A	N/A	N/A	Pass
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	9	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	8	3285	32	1	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	10	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	23	Pass
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	4	3285	32	28	Pass
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	6	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	6	3285	32	19	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	4	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	1	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	1	3285	32	0	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	6	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	5	3285	32	2	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	37	3285	32	70	Fail
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	16	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	19	N/A	N/A	N/A	Pass
14 - 3B5P - Sgl Bed	Bedroom	3672	110	24	3285	32	46	Fail

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	2	3285	32	45	Fail
15 - 2B4P - Dbl Bed	Bedroom	3672	110	64	3285	32	73	Fail
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	36	N/A	N/A	N/A	Pass
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	50	N/A	N/A	N/A	Pass
15 - 2B4P - Twn Bed	Bedroom	3672	110	36	3285	32	76	Fail
16 - 1B2P - Dbl Bed	Bedroom	3672	110	14	3285	32	24	Pass
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	5	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	0	3285	32	3	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	0	3285	32	0	Pass

*Zone name's that have an orange coloured font are bedrooms which do not have 24/7 365 days a year occupancy, as per the TM59 guidance.

Domestic Overheating (CIBSE TM59)

Project Details

Building Designer File (.tbd): Brise soleil_external shutters_1.5kWCool_LWC_DSY2_2080High50.tbd

Simulation Results File (.tsd): Brise soleil_external shutters_1.5kWCool_LWC_DSY2_2080High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	0	3285	32	0	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	4	N/A	N/A	N/A	Pass
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	45	Fail
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	51	Fail
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	12	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	3	3285	32	32	Pass
11 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	1	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	1	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	0	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	0	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	7	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	3	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	0	3285	32	6	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	62	3285	32	101	Fail
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	37	N/A	N/A	N/A	Pass
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	66	N/A	N/A	N/A	Fail
14 - 3B5P - Sgl Bed	Bedroom	3672	110	80	3285	32	88	Fail

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	18	3285	32	85	Fail
15 - 2B4P - Dbl Bed	Bedroom	3672	110	117	3285	32	104	Fail
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	68	N/A	N/A	N/A	Fail
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	89	N/A	N/A	N/A	Fail
15 - 2B4P - Twn Bed	Bedroom	3672	110	60	3285	32	103	Fail
16 - 1B2P - Dbl Bed	Bedroom	3672	110	33	3285	32	39	Fail
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	4	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	0	3285	32	1	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	0	3285	32	0	Pass

*Zone name's that have an orange coloured font are bedrooms which do not have 24/7 365 days a year occupancy, as per the TM59 guidance.

Domestic Overheating (CIBSE TM59)

Project Details

Building Designer File (.tbd): Brise soleil_external shutters_1.5kWCool_LWC_DSY3_2080High50.tbd

Simulation Results File (.tsd): Brise soleil_external shutters_1.5kWCool_LWC_DSY3_2080High50.tsd

Date: 27 April 2021

Building Category: Category II

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
1 - 2B4P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	17	Pass
1 - 2B4P - Bedroom 2_db	Bedroom	3672	110	12	3285	32	22	Pass
1 - 2B4P - Living Room / Kitchen	Living Room / Kitchen	1989	59	62	N/A	N/A	N/A	Fail
2 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
2 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	3	N/A	N/A	N/A	Pass
3 - 2B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	1	Pass
3 - 2B2P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	1	Pass
3 - 2B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	3	N/A	N/A	N/A	Pass
4 - 2B3P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	0	Pass
4 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
5 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
5 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
6 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
6 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
7 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
7 - 1B2P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
7 - 1B2P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
8 - 1B2P - Bedroom 1_db	Bedroom	3672	110	0	3285	32	0	Pass
8 - 1B2P - Living Room / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
9 - 2B3P - Bedroom 1_db	Bedroom	3672	110	29	3285	32	28	Pass
9 - 2B3P - Bedroom 2_s	Bedroom	3672	110	0	3285	32	8	Pass
9 - 2B3P - Living Room / Kitchen	Living Room / Kitchen	1989	59	40	N/A	N/A	N/A	Pass
10 - 3B5P - Dbl Bed 1	Bedroom	3672	110	2	3285	32	71	Fail
10 - 3B5P - Dbl Bed 2	Bedroom	3672	110	21	3285	32	74	Fail
10 - 3B5P - Living Room / Kitchen	Living Room / Kitchen	1989	59	28	N/A	N/A	N/A	Pass
10 - 3B5P - Sgl Bed	Bedroom	3672	110	31	3285	32	50	Fail
11 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	1	Pass
11 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
11 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	2	Pass
12 - 2B4P - Dbl Bed	Bedroom	3672	110	0	3285	32	1	Pass
12 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Living Room	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
12 - 2B4P - Twn Bed	Bedroom	3672	110	0	3285	32	1	Pass
13 - 3B5P - Dbl Bed 1	Bedroom	3672	110	0	3285	32	5	Pass
13 - 3B5P - Dbl Bed 2	Bedroom	3672	110	0	3285	32	2	Pass
13 - 3B5P - Living Rm 2	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Living Rm / Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
13 - 3B5P - Sgl Bed	Bedroom	3672	110	0	3285	32	7	Pass
14 - 3B5P - Dbl Bed	Bedroom	3672	110	91	3285	32	119	Fail
14 - 3B5P - Kitchen	Living Room / Kitchen	1989	59	60	N/A	N/A	N/A	Fail
14 - 3B5P - living Rm	Living Room / Kitchen	1989	59	101	N/A	N/A	N/A	Fail
14 - 3B5P - Sgl Bed	Bedroom	3672	110	120	3285	32	103	Fail

Domestic Overheating (CIBSE TM59)

Natural Ventilation Overheating Results

Zone Name	Room Use	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Annual Night Occupied Hours for Bedroom	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
14 - 3B5P - Twn Bed	Bedroom	3672	110	24	3285	32	99	Fail
15 - 2B4P - Dbl Bed	Bedroom	3672	110	153	3285	32	104	Fail
15 - 2B4P - Kitchen	Living Room / Kitchen	1989	59	101	N/A	N/A	N/A	Fail
15 - 2B4P - Living Room	Living Room / Kitchen	1989	59	129	N/A	N/A	N/A	Fail
15 - 2B4P - Twn Bed	Bedroom	3672	110	112	3285	32	119	Fail
16 - 1B2P - Dbl Bed	Bedroom	3672	110	43	3285	32	36	Fail
16 - 1B2P - Kitchen / Living	Living Room / Kitchen	1989	59	10	N/A	N/A	N/A	Pass
17 - 2B3P - Dbl Bed	Bedroom	3672	110	0	3285	32	5	Pass
17 - 2B3P - Kitchen	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Living	Living Room / Kitchen	1989	59	0	N/A	N/A	N/A	Pass
17 - 2B3P - Sgl Bed	Bedroom	3672	110	0	3285	32	0	Pass

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