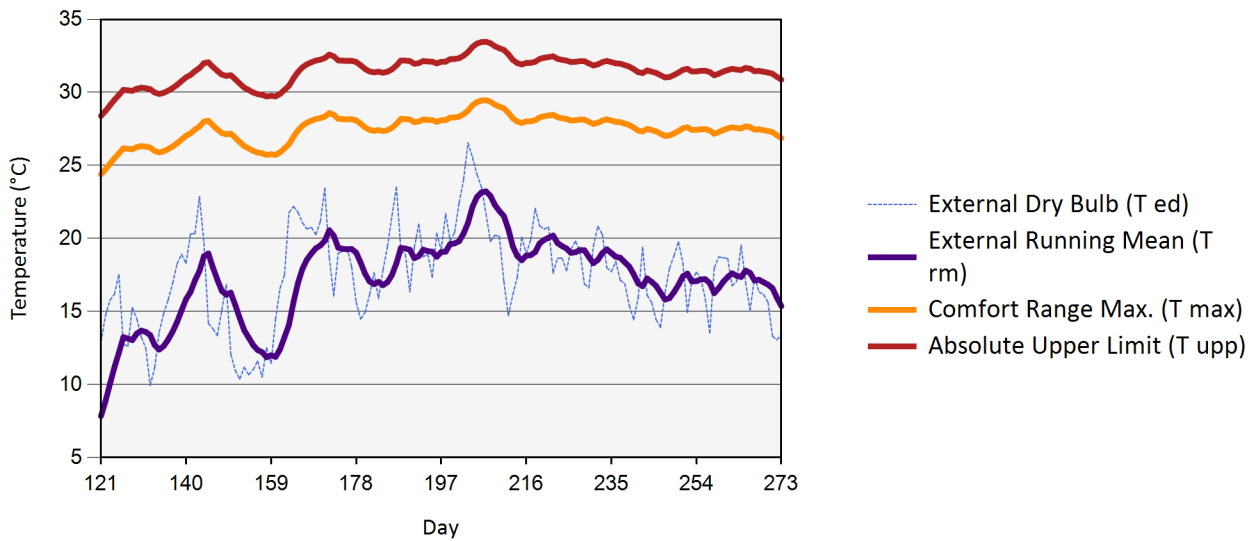


Adaptive Overheating Report (CIBSE TM52)

Adaptive Summer Temperatures for London DSY



The adaptive overheating assessment tests rooms against three criteria. If a room fails any two of the three criteria then it is said to overheat.

1. The first criterion sets a limit for the number of hours that the operative temperature exceeds the comfort temperature by 1°C or more during the occupied hours over the summer period (1st May to 30th September).
2. The second criterion deals with the severity of the overheating within any one day. This sets a daily limit for acceptability.
3. The third criterion sets an absolute maximum daily temperature for the room.

Project Details

Building Designer File (.tbd): 46-48 bedford row proposed Overheating TM52.tbd

Simulation Results File (.tsd): 46-48 bedford row proposed Overheating TM52.tsd

Date: 20 May 2020

Building Category: Category II

Report Criteria: TM52

Results

Zone Name	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Criterion 2: Peak Daily Weighted Exceedance	Criterion 3: #Hours Exceeding Absolute Limit	Result
46_B_2 OFFICE	1272	38	0	0.0	0	Pass
47_B_01 OFFICE	1272	38	24	6.0	0	Pass
48_B_02 OFFICE	1272	38	46	9.0	0	Fail
46_G_03 OFFICE	1272	38	61	15.0	0	Fail
47_G_01 OFFICE	1272	38	101	20.0	0	Fail
48_G_02 OFFICE	1272	38	115	16.0	6	Fail
46_G_04 OFFICE	1272	38	137	21.0	7	Fail
47_G_02 OFFICE	1272	38	115	19.0	1	Fail
48_G_03 OFFICE	1272	38	115	20.0	3	Fail
46_G_09 REAR OFFICE	1272	38	338	30.0	72	Fail

Adaptive Overheating Report (CIBSE TM52)

Results

Zone Name	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Criterion 2: Peak Daily Weighted Exceedance	Criterion 3: #Hours Exceeding Absolute Limit	Result
48_G_07 OFFICE	1272	38	410	22.0	134	Fail
46_1_03 OFFICE	1272	38	101	17.0	4	Fail
46_1_04 OFFICE	1272	38	126	18.0	8	Fail
47_1_02 OFFICE	1272	38	146	22.0	10	Fail
48_1_02 OFFICE	1272	38	118	17.0	8	Fail
46_1_05 OFFICE	1272	38	153	23.0	14	Fail
47_1_03 OFFICE	1272	38	175	22.0	18	Fail
48_1_04 OFFICE	1272	38	133	22.0	9	Fail
46_2_03 OFFICE	1272	38	38	17.0	0	Pass
46_2_05 OFFICE	1272	38	236	23.0	39	Fail
47_2_04 OFFICE	1272	38	294	21.0	66	Fail
48_2_04 OFFICE	1272	38	204	23.0	29	Fail
46_2_06 OFFICE	1272	38	282	27.0	49	Fail
47_2_03 OFFICE	1272	38	286	24.0	53	Fail
48_2_05 OFFICE	1272	38	246	23.0	45	Fail
46_3_05 OFFICE	1272	38	42	19.0	0	Fail
46_3_06 OFFICE	1272	38	202	22.0	22	Fail
47_3_03 OFFICE	1272	38	370	22.0	94	Fail
48_3_02 OFFICE	1272	38	285	19.0	62	Fail
46_3_07 OFFICE	1272	38	342	23.0	74	Fail
47_3_02 OFFICE	1272	38	361	24.0	75	Fail
48_3_04 OFFICE	1272	38	224	24.0	32	Fail