

Date 4th Sep 2023

Project Hevacomp Upper Project no. -
 Engineer JK Checked by Date checked
 File C:\Users\joe.k\MEP Design\Projects - Documents\22_023 Upper & Lower Campfield - Design\1 Mechanical Services

Design basis

Outside design temperature -3 °C
 Heat loss model Simple model
 Main system of heating : Double/triple panel radiators
 Rooms included All rooms selected

Summary results

Room ref.	No. off	Inside temp.	Fabric loss (W)	Infiltration loss (W)	Total loss (W)
G00	1	21	10202	10382	21367
G01	1	20	306	933	1239
G02	1	20	31	570	601
G03	1	20	5	83	88
G04	1	20	119	478	597
G05	1	20	280	581	860
G06	1	20	19	254	273
G07	1	20	44	752	796
G08	1	21	6856	9312	16782
G09	1	20	3229	1206	4604
G10	1	21	73	316	389
G11	1	21	73	316	389
G12	1	21	73	316	389
G13	1	21	297	322	620
G14	1	20	198	690	888
G15	1	21	351	355	706
G16	1	21	114	332	446
G17	1	21	74	211	285
G18	1	21	74	211	285
G19	1	20	2	111	113
G20	1	20	2	109	111
G21	1	21	10288	10569	21649
G22	1	21	698	1514	2212
G23	1	20	-9	296	287
G24	1	21	52	205	257
G25	1	21	427	934	1361
G26	1	21	10170	10440	21392
G27	1	20	624	3256	3879
G28	1	21	758	2298	3056
G29	1	21	2119	5885	8005
M00	1	21	13267	14279	28877
M01	1	21	327	654	1026
M02	1	21	2118	686	2932
M03	1	21	2795	4072	7226
M04	1	20	5690	4072	10270
M05	1	20	86	2146	2355

Project Hevacomp Upper

Room ref.	No. off	Inside temp.	Fabric loss (W)	Infiltration loss (W)	Total loss (W)
M06	1	20	15	302	332
M07	1	20	374	503	915
M08	1	21	13015	14241	28573
M09	1	21	12132	13153	26597
M10	1	20	653	3574	4429
M11	1	20	589	3928	4731
M12	1	20	1124	17295	19403

Project Hevacomp Upper

Outside design temperature -3 °C
 Heat loss model Simple model
 Main system of heating : Double/triple panel radiators
 Rooms included All rooms selected

Project total heat losses

Total exposed wall loss	25853	W
Total exposed roof loss	6962	W
Total exposed floor loss	4650	W
Total internal floor loss	-28	W
Total internal ceiling loss	30	W
Total internal partition loss	15	W
Total window loss	66396	W
Total rooflight loss	0	W
Total infiltration loss	147716	W
Total fixed air loss	0	W
Total Heat loss	251595	W

Total floor area	2568	m ²	97.97	W/m ²
Total volume	18073.96	m ³	13.92	W/m ³

Pre-heat period (hrs)	Plant ratio	Plant boosted output (kW)
0	1.90	478.16
1	1.79	449.27
2	1.68	423.66
3	1.59	400.82
4	1.51	380.31
5	1.44	361.8
6	1.37	345.01
7	1.31	329.71
8	1.25	315.71