

SUMMARY OF SAP 2005 CALCULATIONS

Project Name: Belsize Road
Project Number: 4473
Date: 20/04/2007
Assumptions Taken:
 U-values
 Walls 0.3
 Ground Floor 0.25
 Basement 0.25
 Lower roof 0.25
 Upper roof 0.25
 Windows 2
 Infiltration 10
 Ventilation type Mechanical extract (Max 4ACH) flats facing railway except 5th floor flats
 Natural ventilation rest of flats
 Corridors heated
 Accredited robust details Yes
 Y-value 0.08
 Boiler efficiency 86%
 Heating system Community heating (TRV, Thermostat, standard flat charge)
 Hot water type Centralised hot water system (cylinders not in flats)
 Solar collectors type Flat Plate Test Certificate
 Net collector area per flat 1.12
 Zero loss collector efficiency 0.79
 Collector heat loss efficiency 1.76
 Orientation South
 Angle 45
 Solar hot water storage per flat 65
 Total storage hot water per flat 83

Flat 39	96.1	20.04	18.58	7.3%
Flat 40	105.8	19.41	17.82	8.2%
Flat 1	52.7	25.68	21.48	16.4%
Flat 2	51.1	22.75	18.69	17.8%
Flat 3	53.8	22.17	18.4	17.0%
Flat 41	58.5	27.04	18.4	32.0%
Flat 42	71.5	21.12	17.69	16.2%
Flat 43	52	24.04	20.24	15.8%
Flat 44	71.5	21.12	19.03	9.9%
Flat 45	72	22.12	19.98	9.7%
Flat 46	68.1	23.15	20.34	12.1%
Flat 4	49.4	20.05	15.36	23.4%
Flat 13	49.4	20.05	15.36	23.4%
Flat 22	49.4	20.05	15.36	23.4%
Flat 5	64.1	19.19	15.82	17.6%
Flat 6	48.5	20.25	15.13	25.3%
Flat 15	48.5	20.25	15.13	25.3%
Flat 24	48.5	20.25	15.13	25.3%
Flat 7	52.7	21.32	17.49	18.0%
Flat 16	52.7	21.32	17.49	18.0%
Flat 25	52.7	21.32	17.49	18.0%
Flat 8	51.1	20.12	16.29	19.0%
Flat 17	51.1	20.12	16.29	19.0%
Flat 26	51.1	20.12	16.29	19.0%
Flat 9	53.8	19.53	16	18.1%
Flat 18	53.8	19.53	16	18.1%
Flat 27	53.8	19.53	16	18.1%
Flat 47	75.8	17.34	14.86	14.3%
Flat 51	75.8	19.94	18.72	6.1%
Flat 50	67.6	19.03	15.92	16.3%
Flat 54	67.6	21.62	19.79	8.5%
Flat 11	71.8	17.24	14.38	16.6%
Flat 20	71.8	19.69	18.25	7.3%
Flat 12	47.6	20.46	15.57	23.9%
Flat 21	47.6	20.46	15.57	23.9%
Flat 28	47.6	20.46	15.57	23.9%
Flat 14	67.9	18.96	15.85	16.4%
Flat 23	67.9	18.96	15.85	16.4%
Flat 10	52	20.67	17.01	17.7%
Flat 19	52	23.19	20.26	12.6%
Flat 48	71.5	17.59	15.48	12.0%
Flat 52	71.5	20.04	18.76	6.4%
Flat 49	72	18.04	15.98	11.4%
Flat 53	72	20.58	19.34	6.0%
Flat 29	46.4	21.08	16.93	19.7%
Flat 30	47.52	20.59	18.21	11.6%
Flat 31	48.5	21.41	16.79	21.6%
Flat 32	52.7	22.55	19.15	15.1%
Flat 33	51.1	20.47	16.75	18.2%
Flat 34	53.8	21.56	17.98	16.6%
Flat 35	47.6	23.03	18.7	18.8%
Flat 36	65.6	22.9	21.33	6.9%
Flat 37	76.3	20.36	17.94	11.9%
Flat 38	71.1	22.46	20.14	10.3%