Rainwater Calculation Sheet

This sheet to be used in conjunction with BSEN 12056-3:2000

Red - input data **Blue - generated data**

Project 69 Highgate High Street | Project Number

Roof Reference	Plan Roof Area (m)	Roof Pitch Factor	Wall Area (m)			Total Area	Roof Category (taken from BS EN 12056)	Runoff Coefficient	Rainfall Intensity (l/s per m²)	Total Flow Rate (l/s)	No of rwo's/gutter outlets	Flow rate per rwo/rwp (l/s)
			(H)	(L)	50%	(m^2)						
Main Roof A	4.2	1			**0**	**4.2**	1	1	0.062	**0.26**	1	0.26
Main Roof B	34.6	1			**0**	**34.6**	1	1	0.062	**2.15**	1	2.15
Main Roof C	23	1			**0**	**23.00**	1	1	0.062	**1.43**	1	1.43
Terrace	9	1			**0**	**9**	1	1	0.062	**0.56**	1	0.56
Canopy	11.9	1			**0**	**11.9**	1	1	0.062	**0.74**	1	0.74
				Totals		**82.70**				**5.13**		

1) Select rainfall intensity for project area **0.062** **l/s per m²**

2) Select pitch and pitch factor

Roof Pitch	Factor
Flat	1
30°	1.15
45°	1.4
60°	2
70° to vertical	0.5

3) Min rainwater pipe size based upon 1/3 filling rate
75mm dia - 5.0l/s
100mm dia - 10.7 l/s
150mm dia - 31l/s