

TABLE 11-2
Sizing of Horizontal Rainwater Piping^{1,2}

Size of Pipe, mm	Flow at 10mm/m Slope, L/s	Maximum Allowable Horizontal Projected Roof Areas Square Metres at Various Rainfall Rates					
		25mm/h	50mm/h	75mm/h	100mm/h	125mm/h	150mm/h
75	2.1	305	153	102	76	61	51
100	4.9	700	350	233	175	140	116
125	8.8	1,241	621	414	310	248	207
150	14.0	1,988	994	663	497	398	331
200	30.2	4,273	2,137	1,424	1,068	855	713
250	54.3	7,692	3,846	2,564	1,923	1,540	1,282
300	87.3	12,375	6,187	4,125	3,094	2,476	2,062
375	156.0	22,110	11,055	7,370	5,528	4,422	3,683

Size of Pipe, mm	Flow at 20mm/m Slope, L/s	Maximum Allowable Horizontal Projected Roof Areas Square Metres at Various Rainfall Rates					
		25mm/h	50mm/h	75mm/h	100mm/h	125mm/h	150mm/h
75	3.0	431	216	144	108	86	72
100	6.9	985	492	328	246	197	164
125	12.4	1,754	877	585	438	351	292
150	19.8	2,806	1,403	935	701	561	468
200	42.7	6,057	3,029	2,019	1,514	1,211	1009
250	76.6	10,851	5,425	3,618	2,713	2,169	1807
300	123.2	17,465	8,733	5,816	4,366	3,493	2912
375	220.2	31,214	15,607	10,405	7,804	6,248	5202

Size of Pipe, mm	Flow at 40mm/m Slope, L/s	Maximum Allowable Horizontal Projected Roof Areas Square Metres at Various Rainfall Rates					
		25mm/h	50mm/h	75mm/h	100mm/h	125mm/h	150mm/h
75	4.3	611	305	204	153	122	102
100	9.8	1,400	700	465	350	280	232
125	17.5	2,482	1,241	827	621	494	413
150	28.1	3,976	1,988	1,325	994	797	663
200	60.3	8,547	4,273	2,847	2,137	1,709	1,423
250	108.6	15,390	7,695	5,128	3,846	3,080	2,564
300	174.6	24,749	12,374	8,250	6,187	4,942	4,125
375	312.0	44,220	22,110	14,753	11,055	8,853	7,367

Notes:

¹ The sizing data for horizontal piping are based on the pipes flowing full.

² For rainfall rates other than those listed, determine the allowable roof area by dividing the area given in the 25mm/hour (1 in./hour) column by the desired rainfall rate.

SI: 1mm = 0.04 in.; 1L/s = 15.85 gpm