

Appendix C: Uniform Plumbing Code

Table C.3. Sizing of Horizontal Rainwater Piping (Metric) (IAMPO, 2000)

Size of Pipe	Flow	Maximum Allowable Horizontal Projected Roof Areas Square Feet at Various Rainfall Rates					
		10mm/m Slope					
Millimeters	L/S	25mm/Hr	50mm/Hr	75mm/Hr	100mm/Hr	125mm/Hr	150mm/Hr
80	2.1	305	153	102	76	61	51
100	4.9	700	350	233	175	140	116
125	8.8	1241	621	414	310	248	207
150	14.0	1988	994	663	497	398	331
200	30.2	4273	2137	1424	1068	855	713
250	54.3	7692	3846	2564	1923	1540	1282
300	87.3	12375	6187	4125	3094	2476	2062
375	156.0	22110	11055	7370	5528	4422	3683
	20mm/m Slope						
Millimeters	L/S	25mm/Hr	50mm/Hr	75mm/Hr	100mm/Hr	125mm/Hr	150mm/Hr
80	4.3	413	216	144	108	86	72
100	6.9	985	492	328	246	197	164
125	12.4	1754	877	585	438	351	292
150	19.8	2806	1403	935	701	561	468
200	42.7	6057	3029	2019	1514	1211	1009
250	76.6	10851	5425	3618	2713	2169	1807
300	123.2	17465	8733	5816	4366	3493	2912
375	220.2	31214	15607	10405	7804	6248	5205
	40mm/m Slope						
Millimeters	L/S	25mm/Hr	50mm/Hr	75mm/Hr	100mm/Hr	125mm/Hr	150mm/Hr
80	4.3	611	305	204	153	122	102
100	9.8	1400	700	465	350	280	232
125	17.5	2482	1241	827	621	494	413
150	28.1	3978	1988	1325	994	797	663
200	60.3	8547	4273	2847	2137	1709	1423
250	108.6	15390	7695	5128	3846	3080	2564
300	174.6	24749	12374	8250	6187	4942	4125
375	312	44220	22110	14753	11055	8853	7367

Notes:

1. The sizing data for horizontal piping is 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 1 inch/hour(25 mm/hour) column by the desired rainfall rate.