

THESE TABLES ARE FROM THE UNIFORM PLUMBING CODE 2000 EDITION- CHAPTER 11: STORM DRAINAGE

These tables are provided as a reference. For design purposes, please refer to Chapter 11 of the Uniform Plumbing Code 2000 Edition

Table C.1. Sizing Roof Drain, Leaders, and Vertical Rainwater Piping (IAMPO, 2000)

Size of Drain, Leader or Pipe	Flow	Maximum Allowable Horizontal Projected Roof Areas Square Feet at Various Rainfall Rates					
		1"/Hr	2"/Hr	3"/Hr	4"/Hr	5"/Hr	6"/Hr
Inches	gpm						
2	23	2176	1088	725	544	435	363
3	67	6440	3220	2147	1610	1288	1073
4	144	13840	6920	4613	3460	2768	2307
5	261	25120	12560	8373	6280	5024	4187
6	424	40800	20400	13600	10200	8160	6800
8	913	88000	44000	29333	22000	17600	14667
Millimeters	L/S	25mm/Hr	50mm/Hr	75mm/Hr	100mm/Hr	125mm/Hr	150mm/Hr
50	1.5	202	101	67	51	40	34
80	4.2	600	300	200	150	120	100
100	9.1	1286	643	429	321	257	214
125	16.5	2334	1117	778	583	467	389
150	26.8	3790	1895	1263	948	758	632
200	57.6	8175	4088	2725	2044	1635	1363

Notes:

1. The sizing data for vertical conductors, leaders, and drains is based on the pipes flowing 7/24 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.
3. Vertical piping may be round, square, or rectangular. Square pipe shall be sized to enclose its equivalent round pipe. Rectangular pipe shall have at least the same cross-sectional area as its equivalent round pipe, except that the ratio of its side dimensions shall not exceed 3 to 1.

Source = IAMPO (IAPMO R&T is North America's premier plumbing and mechanical product certification agency).