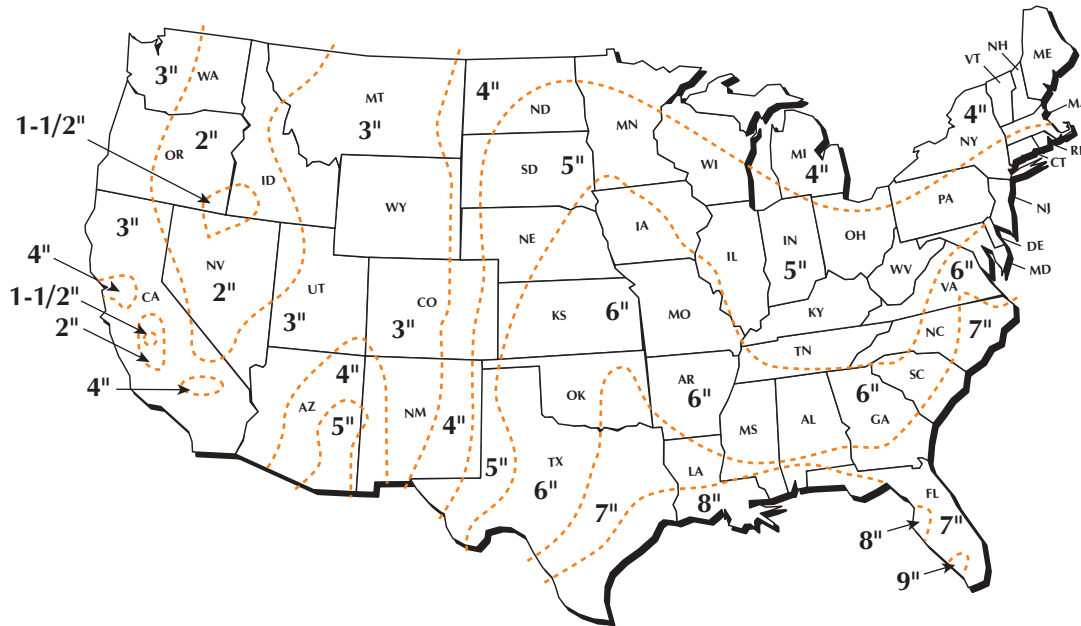


ROOF DRAIN TO ROOF AREA SIZING SCHEDULE



Use the above sketch in combination with the table of the variable rainfall rates below to determine the appropriate quantity and size of the roof drains required when you know:

- a) the total roof area
- b) the approximate drain diameter you will use

Note: When determining the number roof drains required recognize that the smaller the roof drain outlet diameter the more drains you will need. Conversely, the larger the drain outlet diameter the fewer you will need.

How to calculate the quantity of drains required:

- 1.) Calculate the roof area to be drained.
 Example: Roof area is 200' x 500' = 100,000 sq. ft.
- 2.) Estimate the roof drain outlet size you will likely use.
 Example: 4' roof drain
- 3.) Determine your building's location on the above map to determine the approximate rainfall as measured in inches per hour.
 Example: The location of Kansas City, MO shows 6" of rainfall per hour.
- 4.) Select a reference of a roof drain size with hourly rainfall together with the roof area square footage you have estimated and then determine from the chart below how many roof drains you require.
 Example: Each 4" drain size in a 6" hourly rainfall area will accommodate drainage of 3,070 sq. ft. of roof area.
 Therefore, the 100,000 sq. ft. area roof will require $100,000 \div 3070 = 32.5$ or 33 roof drains for ideal drainage.

CALCULATE AREA DRAINAGE BY ROOF DRAIN SIZE AT VARIOUS RAINFALL RATES

DRAIN OUTLET SIZE		HOURLY RAINFALL (in inches)									
		1	1.5	2	2.5	3	4	5	6	7	8
PIPE SIZE (inches)	OPEN AREA (sq. inches)	ROOF AREA SQUARE FOOTAGE									
		2	3	4	5	6	7	8	9	10	11
2	3.14	2,880	1,920	1,440	1,150	960	720	575	480	410	360
3	7.06	8,880	5,860	4,440	3,520	2,930	2,200	1,760	1,470	1,260	1,100
4	12.56	18,400	12,700	9,200	7,360	6,130	4,600	3,680	3,070	2,630	2,300
5	19.60	34,600	23,050	17,300	13,840	11,530	8,650	6,920	5,765	4,945	4,325
6	28.30	54,000	36,000	27,000	21,600	18,000	13,500	10,800	9,000	7,715	6,750
8	50.25	116,000	77,400	58,000	46,400	38,660	29,000	23,200	19,315	16,570	14,500



Volko Supply Company
 205 Herricks Rd
 New Hyde Park, NY, 11040
 1-800-685-8263