

Materials Calculator

in Cubic Yards

For calculating drain rock quantities at a 3" depth

Width of treatment	Linear Feet	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	18 inches	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
24 inches	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	
30 inches	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	
(5 feet)																	
60 inches	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	

Width of treatment	Linear Feet	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	18 inches	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
24 inches	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7
30 inches	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8
(5 feet)																	
60 inches	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7

Width of treatment	Linear Feet	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	18 inches	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7
24 inches	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9
30 inches	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.2
(5 feet)															
60 inches	1.7	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.3

Use this calculation sheet to determine minimum BMP drip line treatments or to determine the amount of drain rock needed for rock armoring in the five-foot non-combustible area. Measure the length of the eaves for drip line calculations or along the foundation or footings of building structures for fire defensible space calculations. When adding linear feet for fire defensible space, subtract 5 feet from inside corners and add 5 feet to outside corners of structures. Find this length on the calculation sheet and coordinate it with the width criteria. Drip line treatments must extend a minimum of 6" inside and 12" beyond the drip line of a single story roof (18" total), 18" of a two-story roof (24" total), and 24" of a three-story roof (30" total). Local fire defensible space requirements include a five-foot non-combustible soil surface treatment, such as turf or rock, around the perimeter of building structures.

$$(\text{Length in Feet} \times \text{Width in Feet} \times \text{Depth in Feet}) / 27 = \text{Cubic Yards}$$