

Martignetti Enterprises, Inc.

Concrete Volumes

Sonotubes, Concrete Mix and UCart Concrete

	A	B	C	D	E	F
	Sonotubes Diameter (in.)	Linear Feet (ft.)	Cu. ft. of concrete per lin. ft.	Bags of Concrete Mix per lin. ft.	Bags of Concrete Mix to fill 12" tubes	Number of bags filling 1 cu. yd. of concrete
1	6	0.2	0.2	0.3	3.5	137.6
2	8	0.3	0.3	0.5	6.2	77.4
3	10	0.5	0.5	0.8	9.8	49.5
4	12	0.8	0.8	1.2	14.1	34.4
5	14	1.1	1.1	1.6	19.1	25.3
6	16	1.4	1.4	2.1	25.0	19.3
7	18	1.8	1.8	2.6	31.6	15.3
8	20	2.2	2.2	3.3	39.1	12.4
9	22	2.6	2.6	3.9	47.3	10.2
10	24	3.1	3.1	4.7	56.2	8.6
11	36	7.1	7.1	10.5	126.5	3.8

Notes:

1 cubic yd. = 27 cu ft.

1 bag of Concrete Mx (80 lbs.) fills two-thirds (.67) of a cubic foot.

It takes 41 bags of Concrete Mx (80 lbs.) to mix a one cu. yd.

Examples:

How much Concrete Mx is needed to fill 5 - 12" diameter sonotubes to 8 ft?

Calculate how many linear feet of tube must be filled - 5 tubes x 8 ft. each = 40 lin. Ft.

From chart above (see Row 4, Column C), each linear foot of 12" tube requires .8 cu. Ft. Therefore, multiply total linear footage by .8 = 40 lin. Ft x .8 = 32 cu. Ft.

1 bag of Concrete mx fills .67 cu. ft. Therefore divide 32 cu. Ft. by .67 = 48 bags.

Another way to calculate this is to take total linear footage (40 lin. ft.) and multiply by the number in Row 4, Column D which says that

it takes 1.2 bags of Concrete Mx to fill a lin. ft. of 12" sonotube. Therefore, 40 lin. ft. x 1.2 bags per lin. ft = 48 bags

How much UCart Concrete is needed for the same job?

5 tubes of 12" sonotube filled 8 ft. require 32 cu. ft. of concrete. One cu. Yd. of concrete is 27 cu. Ft. Therefore, divide 32 by 27 = 1.2 cu. Yds or 1 1/4 cu. Yds.

How much concrete is needed to make a pad 5' x 10' x 6" thick?

Area = 5 x 10 = 50 sq. ft. Thickness = 6" which is 6/12" or .5 ft.

Volume of pad is 50 sq. ft. x .5 ft. thick = 25 cu. ft. One cu. yd. is 27 cu. Ft. so divide 25 by 27 and you get .93 cu yds. or approximately 1 cu. yd.

Therefore you need 1 cu. yd. of UCart or 41 bags of Concrete Mx.