

METRIC GUIDE

CONCRETE VOLUME

1 cubic yard = 0.764 554 9 cubic meters

yd ³	m ³	m ³	yd ³
1.0	0.8	1.0	1.3
2.0	1.5	2.0	2.6
3.0	2.3	3.0	3.9
4.0	3.1	4.0	5.2
5.0	3.8	5.0	6.5
6.0	4.6	6.0	7.8
7.0	5.4	7.0	9.2
8.0	6.1	8.0	10.5
9.0	6.9	9.0	11.8

COMPRESSIVE STRENGTH

1 pound per square inch = 0.006 894 757 megapascals

psi	MPa	MPa	psi
500	3.4	5	730
1000	6.9	10	1450
1500	10.3	15	2180
2000	13.8	20	2900
2500	17.2	25	3630
3000	20.7	30	4350
3500	24.1	35	5080
4000	27.6	40	5800
4500	31.0	45	6530
5000	34.5	50	7250
5500	37.9	55	7980
6000	41.4	60	8700
6500	44.8	65	9430
7000	48.3	70	10150
7500	51.7	75	10880
8000	55.2	80	11600
8500	58.6	85	12330
9000	62.1	90	13050
10000	68.9	100	14500

BATCH QUANTITIES

1 pound per cubic yard = 0.593 276 4 kilograms per cubic meter

lb/yd ³	kg/m ³	kg/m ³	lb/yd ³
50	30	50	84
100	59	100	169
150	89	150	253
200	119	200	337
250	148	250	421
300	178	300	506
350	208	350	590
400	237	400	674
450	267	450	758
500	297	500	843
550	326	550	927
600	356	600	1011
650	386	650	1095
700	415	700	1180
750	445	750	1264
800	475	800	1348
850	504	850	1433
900	534	900	1517
950	564	950	1601
1000	593	1000	1686

UNIT WEIGHT (DENSITY)

1 pound per cubic foot = 16.018 846 kilograms per cubic meter

lb/ft ³	kg/m ³	kg/m ³	lb/ft ³
20.0	320	250	15.6
30.0	481	500	31.2
40.0	641	750	46.8
50.0	801	1000	62.4
60.0	961	1500	93.6
70.0	1121	2000	124.9
80.0	1282	2250	140.5
90.0	1442	2500	156.1
100.0	1602	2750	171.7
120.0	1922	3000	187.3
140.0	2243		
145.0	2323		
150.0	2403		
160.0	2563		
180.0	2883		
200.0	3204		

ADMIXTURE VOLUME

1 fluid ounce per 100 pounds = 65.198 47 milliliters per 100 kilograms

fl oz/100lb	mL/100kg	mL/100kg	fl oz/100lb
0.5	35	25	0.4
1.0	65	50	0.8
1.5	100	75	1.2
2.0	130	100	1.5
2.5	165	125	1.9
3.0	195	150	2.3
3.5	230	175	2.7
4.0	260	200	3.1
4.5	290	250	3.8
5.0	325	300	4.6
6.0	390	350	5.4
7.0	455	400	6.1
8.0	520	450	6.9
9.0	585	500	7.7
10.0	650	550	8.4
15.0	978	600	9.2
20.0	1300	650	10.0
25.0	1630	700	10.7
30.0	1960	750	11.5
35.0	2280	800	12.3
		850	13.0
		900	13.8
		950	14.6
		1000	15.3

WATER VOLUME

1 gallon per cubic yard = 4.951 132 liters per cubic meter

gal/yd ³	L/m ³	L/m ³	gal/yd ³
0.5	2.5	1	0.2
1.0	5.0	2	0.4
1.5	7.4	3	0.6
2.0	9.9	4	0.8
2.5	12	5	1.0
3.0	15	6	1.2
3.5	17	7	1.4
4.0	20	8	1.6
4.5	22	9	1.8
5.0	25	10	2.0
5.5	27	15	3.0
6.0	30	20	4.0
6.5	32	25	5.0
7.0	35		
7.5	37		
8.0	40		
8.5	42		
9.0	45		
9.5	47		
10.0	49.5		