

# Handy Reference Tables

## Weight of reinforcement bar

	pounds per linear foot	diameter inches	cross section area square inches
#3	0.376	0.375	0.11
#4	0.668	0.500	0.20
#5	1.043	0.625	0.31
#6	1.502	0.750	0.44
#7	2.044	0.875	0.60
#8	2.670	1.00	0.79

## 1 cubic yard of concrete places:

depth	ft <sup>2</sup>
2"	162
4"	81
6"	54
8"	40
10"	32.5
12"	27

## Water

1 cu. ft.	7.48 gals.
1 cu. ft.	62.3 lbs.
1 gal	8.33 lbs.
1 gal	231 in <sup>3</sup>
1 gal	0.1337 ft <sup>3</sup>

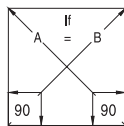
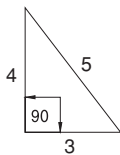
Its greatest density is at 39.1° F  
weighing 62.4 pounds / ft<sup>3</sup>

## Circle Measure

$$\pi = 3.1416$$

circumference = diameter x  $\pi$   
area =  $\pi$  x radius<sup>2</sup>

## Geometric Measure



## Materials Average Weight

Concrete	150 lbs./ft <sup>3</sup>
Steel	490 lbs./ft <sup>3</sup>
Sand (dry)	98 lbs./ft <sup>3</sup>
Sand (wet)	124 lbs./ft <sup>3</sup>
Gravel	120 lbs./ft <sup>3</sup>
Cast Iron	446 lbs./ft <sup>3</sup>
Wood (fir)	32 lbs./ft <sup>3</sup>
Wood (oak)	40 lbs./ft <sup>3</sup>

## Data for Pipe Volumes

Nominal Pipe Size Inches	Gallons per Ft. of Pipe Length	Feet of Pipe Holding One Gallon
1/2	0.016	63.35
3/4	0.028	36.03
1	0.045	22.79
1-1/4	0.078	12.85
1-1/2	0.106	9.45
2	0.174	5.74
2-1/2	0.249	4.02
3	0.384	2.61
4	0.661	1.51
6	1.501	0.67
8	2.599	0.39

## Technical Data Disclaimer

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