

### Comparison of Typical Concrete Quantities

1 MPa	=	145 psi		1 ft.	=	0.3 m
1 m <sup>3</sup>	=	1.3 yd <sup>3</sup>		1 in.	=	2.5 cm
1 liter/m <sup>3</sup>	=	0.2 gal./yd <sup>3</sup>		1 f. oz./100 lbs. cement	=	65 ml/100 kg cement
1 kg	=	2.2 lbs.		1 lb./yd <sup>3</sup>	=	0.6 kg/m <sup>3</sup>
1 kg/m <sup>3</sup>	=	1.686 lbs/yd <sup>3</sup>		1 yd <sup>3</sup>	=	0.7646 m <sup>3</sup>
Unit weight (water)	=	1 kg/L		1 fl. oz.	=	30 ml
1 metric ton (1000 kg)	=	2205 lbs.		1 gal.	=	3.8 liter

### Comparison of Typical (Approximate) Concrete Values

Typical Value	US Customary	Metric
Weight: bag of cement	94 lbs.	± 43 kg
Typical Design Strength	3000 psi	21 MPa
High Strength Concrete	6000 psi	41 MPa
Cement Content		
5 bag mix	470 lbs/yd <sup>3</sup>	279 kg/m <sup>3</sup>
6 bag mix	564 lbs/yd <sup>3</sup>	335 kg/m <sup>3</sup>
7 bag mix	658 lbs/yd <sup>3</sup>	390 kg/m <sup>3</sup>
Concrete Density	145 lb/ft <sup>3</sup>	2323 kg/m <sup>3</sup>
Slump	3 - 4 in.	7.5 - 10 cm
Slab thickness	4 in.	10 cm