
Appendix: Conversion Factors

1 in. = 25.40 mm	<i>Length</i>	1 mm = 0.03937 in.
1 in. = 2.540 cm		1 cm = 0.3937 in.
1 ft. = 0.3048 m		1 m = 3.281 ft
1 mile = 1.609 km		1 km = 0.6214 mile
1 in. ² = 645.2 mm ²	<i>Area</i>	1 mm ² = 0.001550 in. ²
1 in. ² = 6.452 cm ²		1 cm ² = 0.1550 in. ²
1 ft ² = 0.09290 m ²		1 m ² = 10.76 ft ²
1 in. ³ = 16,390 mm ³	<i>Volume</i>	1 mm ³ = 0.00006102 in. ³
1 in. ³ = 16.39 cm ³		1 cm ³ = 0.06102 in. ³
1 ft ³ = 0.02832 m ³		1 m ³ = 35.31 ft ³
1 lb = 0.4535 kg	<i>Force</i>	1 kg = 2.205 lb
1 lb = 4.448 N		1 N = 0.2248 lb
1 kip = 4.448 kN		1 kN = 0.2248 kip
1 ton = 8.896 kN		1 kN = 0.1124 ton
1 lb/in. ² = 0.07029 kg/cm ²	<i>Pressure or stress</i>	1 kg/cm ² = 14.23 lb/in. ²
1 lb/in. ² = 6.894 kN/m ²		1 kN/m ² = 0.1450 lb/in. ²
1 lb/ft ² = 0.04788 kN/m ²		1 kN/m ² = 20.89 lb/ft ²
1 kip/ft ² = 47.88 kN/m ²		1 kN/m ² = 0.02089 kip/ft ²
1 ton/ft ² = 95.76 kN/m ²		1 kN/m ² = 0.01044 ton/ft ²
1 lb/ft ³ = 0.1571 kN/m ³	<i>Unit weight</i>	1 kN/m ³ = 6.366 lb/ft ³
62.4 lb/ft ³ = 9.81 kN/m ³		
