

METRIC CONVERSIONS

MULTIPLY	BY	TO GET	
Length	inches	25.4	mm
		0.3048	m
Area	sq in	645.16	mm ²
	sq ft	0.0929	m ²
Volume	cu in	0.01639	L
	cu ft	28.3169	L
	gal	3.785	L
Mass	lb	0.4536	kg
Mass/unit length	plf (lb/ft)	1.4882	kg/m
Mass/unit area	psf (lb/sq ft)	4.882	kg/m ²
Mass density	pcf (lb/cu ft)	16.02	kg/m ³
Force	lb	4.4482	N
Force/unit length	plf (lb/ft)	14.5939	N/m
Pressure	psi psf (lb/sq ft) in. of Hg @ 60°F	6.895	kPa
		47.88	Pa
		3.37685	kPa
stress, modulus of elasticity	psi psf (lb/sq ft)	6.895	kPa
		47.88	Pa
Second moment of area	in ⁴	416,231	mm ⁴
Section modulus	in ³	16,387.064	mm ³
Temperature	°F-32 °F + 459.67	5/9	°C
		5/9	K
Energy, work, quantity of heat	kWh Btu ft • lb (force)	3.6 1055	MJ
		1.3558	J
Power	ton (refrig)	3.517	kW
	Btu/s hp	1.0543	kW
	(electric)	745.7	W
	Btu/h	0.2931	W
Thermal conductance (U value)	Btu/ft ² • h • °F	5.6783	W/m ² • K
Thermal resistance (R value)	ft ² • h • °F/Btu	0.1761	m ² • K/W
Flow	gpm	0.0631	Us
	cfm	0.4719	Us
Illuminance	footcandle (lm/sq ft)	10.76	lx (lux)
Velocity (speed)	mph	0.447	m/s
Plane angle	°(angle)	0.01745	rad

