

FOREWARD

This edition of the State of Maine, Department of Transportation, Standard Specifications will be used on Projects designed and Bid in either metric or US Customary units. Individuals using these Standard Specifications must familiarize themselves with the proper units.

The metric units are listed first, with the US Customary units following in brackets. The Bidder shall be responsible for determining if metric or US Customary is used in the Schedule of Items and for determining the proper Bid for the units shown. All Projects will be built in the units shown on the Schedule of Items. An electronic version of these specification is available for reference purposes at www.state.me.us/mdot/project/design/homepage.htm

COMMON METRIC UNITS AND CONVERSION TO US CUSTOMARY

Unit	Multiply	By	To Get
Length	mi	1.609344	km
	ft	0.3048	m
	in	25.4	mm
Area	mi ²	2.5900	km ²
	acre	0.404856	ha
	yd ²	0.836127	m ²
	ft ²	0.092903	m ²
Volume	yd ³	0.764555	m ³
	ft ³	0.028317	m ³
	gal	3.78541	L
Mass	lb	0.453592	kg
	ton	0.907184	Mg
Mass/Unit Area	psf	4.88243	kg/m ²
Mass Density	pcf	16.0185	kg/m ³
Force	lb	4.44822	N
	kip	4.44822	kN
Force/Unit Length	klf	14.5939	kN/m
Pressure	psf	47.8803	Pa
Stress	ksf	47.8803	kPa
Modulus of Elasticity	psi	6.89476	kPa
	ksi	6.89476	Mpa
Bending Moment / Torque	ft-lb	1.35582	Nm
Moment of Force	ft-kip	1.35582	kNm
Moment of Inertia	in ⁴	416231	mm ⁴
Section Modulus	in ³	16387.064	mm ³
Temperature	°F	5/9(°F-32)	°C