

General Conversion Charts

AISI THICKNESS GAUGE EQUIVALENTS IN NOMINAL DIMENSIONS			
GAUGE	APPROXIMATE DIMENSIONS (INCHES)	DECIMALS (INCHES)	
		UNCOATED STEEL	GALVANIZED STEEL (G60)
3	1/4	0.239	----
7	3/16	0.1793	----
10	9/64	0.1345	0.1382
11	1/8	0.1196	0.1233
12	7/64	0.1046	0.1084
13	3/32	0.0897	0.0934
14	5/64	0.0747	0.0785
16	1/16	0.0598	0.0635
18	3/64	0.0478	0.0516
20	1/32	0.0359	0.0396
22	1/32	0.0299	0.0336
25	1/32	0.0209	0.0247

FOOTNOTE: Actual steel dimensions will vary from nominal dimensions according to industry tolerances of 0.005±.

ALLOWABLE SHEAR LOAD ADJUSTMENT FACTOR FOR NAILS & SCREWS		
WOOD SPECIES (GROUP II)	SPECIFIC GRAVITY (G)	ADJUSTMENT FACTOR
Southern Yellow Pine	0.55	1
Douglas Fir-Larch (N)	0.50	0.927
Douglas Fir (S) Hem-Fir (N)	0.46	0.86
Spruce-Pine-Fir	0.42	0.80

FOOTNOTE: Allowable loads must be adjusted according to the applicable wood species. Design loads are based on southern Yellow Pine wood species with a specific gravity of 0.55.

BOLT DIAMETER CONVERSION	
BOLT DIAMETER (IN)	METRIC (mm)
3/8	9.53
1/2	12.70
5/8	15.88
3/4	19.05
7/8	22.23
1	25.40
1 1/8	28.58
1 1/4	31.75

FOOTNOTE: All reference to bolts are structural quality bolts equal to or better than ASTM Standard A307.

SLOPE CONVERSION TABLE	
RISE / RUN (in)	SLOPE (DEGREES)
0/12	FLAT
1/12	4.75
2/12	9.50
3/12	14.00
4/12	18.4
5/12	22.6
6/12	26.6
7/12	30.25
8/12	33.70
9/12	36.87
10/12	39.81
11/12	42.50
12/12	45.00

