

TOLERANCES

CARBON AND ALLOY PLATE

Permissible Variations in Thickness for Rectangular Carbon, High-Strength, Low Alloy, and Alloy-Steel Plates, When Ordered to Thickness

NOTE 1 — Permissible variation under specified thickness, 0.01 in.

NOTE 2 — Thickness to be measured at $\frac{3}{8}$ to $\frac{3}{4}$ in. from the longitudinal edge.

NOTE 3 — For Thickness measured at any location other than that specified in Note 2, the permissible maximum over tolerance shall be increased by 75%, rounded to the nearest 0.01 in.

Specified Thickness, in.	Tolerance Over Specified Thickness For Widths Given, in.							
	48 and under	Over 48 to 60, excl	60 to 72, excl	72 to 84, excl	84 to 96, excl	96 to 108, excl	108 to 120, excl	120 to 132, excl
To $\frac{1}{4}$, excl	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
$\frac{1}{4}$ to $\frac{3}{16}$, excl	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
$\frac{5}{16}$ to $\frac{3}{8}$, excl	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
$\frac{3}{8}$ to $\frac{7}{16}$, excl	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
$\frac{7}{16}$ to $\frac{1}{2}$, excl	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
$\frac{1}{2}$ to $\frac{5}{8}$, excl	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04
$\frac{5}{8}$ to $\frac{3}{4}$, excl	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
$\frac{3}{4}$ to 1, excl	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05
1 to 2, excl	0.06	0.06	0.06	0.06	0.06	0.07	0.08	0.10
2 to 3, excl	0.09	0.09	0.09	0.10	0.10	0.11	0.12	0.13
3 to 4, excl	0.11	0.11	0.11	0.11	0.11	0.13	0.14	0.14
4 to 6, excl	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
6 to 10, excl	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24
10 to 12, excl	0.29	0.29	0.33	0.33	0.33	0.33	0.33	0.33
12 to 15, incl	0.29	0.29	0.35	0.35	0.35	0.35	0.35	0.35

Permissible Variations in Width and Length for Sheared Plates $\frac{1}{2}$ in. and Under in Thickness

Variations over Specified Width and Length* for Thicknesses, in., and Equivalent Weights, lb/ft², Given

Length	Width	Specified Dimensions, in.							
		To $\frac{3}{8}$, excl		$\frac{3}{8}$ to $\frac{5}{8}$ excl		$\frac{5}{8}$ to 1, excl		1 to 2, incl	
		Width	Length	Width	Length	Width	Length	Width	Length
To 120, excl	To 60, excl	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$	1
	60 to 84, excl	$\frac{7}{16}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{11}{16}$	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	1
	84 to 108, excl	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	1	1	$1\frac{1}{8}$
	108 and over	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	1	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$
120 to 240, excl	To 60, excl	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{5}{8}$	1	$\frac{3}{4}$	$1\frac{1}{8}$
	60 to 84, excl	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	1	$\frac{7}{8}$	$1\frac{1}{4}$
	84 to 108, excl	$\frac{9}{16}$	$\frac{7}{8}$	$\frac{11}{16}$	$\frac{5}{8}$	$\frac{13}{16}$	$1\frac{1}{8}$	1	$1\frac{3}{8}$
	108 and over	$\frac{5}{8}$	1	$\frac{3}{4}$	$1\frac{1}{8}$	$\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{3}{8}$
240 to 360, excl	To 60, excl	$\frac{3}{8}$	1	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{5}{8}$	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{2}$
	60 to 84, excl	$\frac{1}{2}$	1	$\frac{5}{8}$	$1\frac{1}{8}$	$\frac{3}{4}$	$1\frac{1}{4}$	$\frac{7}{8}$	$1\frac{1}{2}$
	84 to 108, excl	$\frac{9}{16}$	1	$\frac{11}{16}$	$1\frac{1}{8}$	$\frac{7}{8}$	$1\frac{3}{8}$	1	$1\frac{1}{2}$
	108 and over	$\frac{11}{16}$	$1\frac{1}{8}$	$\frac{7}{8}$	$1\frac{1}{4}$	1	$1\frac{3}{8}$	$1\frac{1}{4}$	$1\frac{3}{4}$
360 to 480, excl	To 60, excl	$\frac{7}{16}$	$1\frac{1}{8}$	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{5}{8}$	$1\frac{3}{8}$	$\frac{3}{4}$	$1\frac{5}{8}$
	60 to 84, excl	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{5}{8}$	$1\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{2}$	$\frac{7}{8}$	$1\frac{5}{8}$
	84 to 108, excl	$\frac{9}{16}$	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{3}{8}$	$\frac{7}{8}$	$1\frac{1}{2}$	1	$1\frac{7}{8}$
	108 and over	$\frac{3}{4}$	$1\frac{3}{8}$	$\frac{7}{8}$	$1\frac{1}{2}$	1	$1\frac{5}{8}$	$1\frac{1}{4}$	$1\frac{7}{8}$

*Permissible variation under specified width and length, $\frac{1}{4}$ in.

Permissible Variations in Width and Length for Rectangular Plates When Gas Cutting is Specified or Required

NOTE 1 — These variations may be taken all under or divided over and under, if so specified.

Specified Thickness, in.	ALLOY	CARBON
	Variations Over for All Specified Widths or Lengths, In.	Variations Over for All Specified Widths or Lengths, In.
To 2, excl	$\frac{3}{4}$	$\frac{1}{2}$
2 to 4, excl	1	$\frac{5}{8}$
4 to 6, excl	$1\frac{1}{8}$	$\frac{3}{4}$
6 to 8, excl	$1\frac{5}{16}$	$\frac{7}{8}$
8 to 15, incl	$1\frac{1}{2}$	1