

Specifications and Sizes



Maximum Plate Size by Grade and Thickness

All dimensions are in inches

Table 1

Plate Thickness	Corrosion Resisting Grades						Duplex Grades			Heat Resisting Grades			Other
	304, 304H, 304L, 316L	PRODEC®	303	317L, 317LM, 317LMN	254 SMO®	904L	2205 Code Plus Two	LDX 2101®, 2304	2507	347	309, 309H, 309S, 310, 310H, 310S	253 MA®, 321	410/410S
0.187	96x420 120x420	96x320		96x320	96x320	96x320	96x320	96x320	96x320	96x420 120x420	96x320	96x320	96x320
0.25	96x420 120x420	96x320		96x320	96x320	96x320	96x320	96x320	96x320	96x420 120x420	96x320	96x320	96x320
0.312	96x420 120x420	96x320		96x320	96x320	96x320	96x320	96x320	96x320	96x420 120x420	96x320	96x320	96x320
0.375	96x420 120x420	96x420 120x420	96x420	96x420 120x420	96x320	96x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x320
0.5	96x420 120x420	96x420 120x420	96x420	96x420 120x420	96x360	96x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x320
0.625	96x420 120x420	96x420 120x420	96x420	96x420 120x420	96x360	96x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x320
0.75	96x420 120x420	96x420 120x420	96x415	96x420 120x420	96x360	96x420	96x420 120x420	96x420 120x400	96x420 120x400	96x420 120x420	96x420 120x400	96x420 120x420	96x320
1.0	96x420 120x420	96x420 120x420	96x310	96x395 120x320	96x270	96x395	96x420 120x420	96x360 120x290	96x360 120x290	96x420 120x420	96x360 120x290	96x420 120x320	96x320
1.25	96x420 120x420	96x420 120x420	96x240	96x360 120x290	96x215	96x360	96x420 120x420	96x300 120x230	96x300 120x230	96x420 120x360	96x300 120x230	96x400 120x290	96x320
1.5	96x420 120x420	96x420 120x420	96x420	96x300 120x240	96x150	96x300	96x420 120x410	96x245 120x200	96x245 120x200	96x420 120x300	96x245 120x200	96x310 120x240	96x310
1.75	96x420 120x340	96x420 120x340	96x420	96x260 120x210	96x130	96x260	96x400 120x355	96x200 120x170	96x200 120x170	96x340 120x250	96x200 120x170	96x260 120x210	96x260
2.0	96x360 120x290	96x360 120x290	96x360	96x220 120x180	96x110	96x220	96x390 120x320	96x180 120x145	96x180 120x145	96x290 120x220	96x180 120x145	96x230 120x180	96x230
2.25	96x320	96x320	96x130	96x200	96x105	96x200	96x320		96x165	96x200	96x165	96x220	96x200
2.5	96x300	96x300	96x120	96x180	96x100	96x180	96x300		96x150	96x180	96x145	96x200	96x180
2.75	96x280	96x280	96x110	96x160	96x96	96x160	96x280		96x135	96x160	96x135	96x180	96x160
3.0	96x240	96x240	96x100	96x150	96x90	96x150	96x240		96x125	96x150	96x125	96x160	96x150
3.5	96x210	96x210			96x75		96x210			96x210		96x140	96x130
4.0	96x190	96x185			96x65		96x180			96x190		96x120	96x120
4.25	96x180	96x175					96x170			96x180			
4.5	96x170	96x165					96x160			96x170			
4.75	96x160	96x155					96x155			96x160			
5.0	96x150	96x150					96x147			96x150			
5.25	96x145	96x143					96x140			96x145			
5.5	96x135	96x135					96x133			96x135			
5.75	96x130	96x130					96x127			96x130			
6.0	96x125	96x125					96x122			96x125			

* All grades and sizes are subject to slab availability at time of order placement. Minimum order quantities may be required.

Please inquire about sizes not shown.

Standard Width/Length Tolerances for Processed Stainless Steel Plate

Shear tolerances on sizes up to 0.750 inches are normally +/-0.250 inches on width and length.

Other tolerances are available upon application.

Plasma-cutting tolerances are ASTM A 480 Table A2.27 (See below)

2" and under	+ $\frac{3}{8}$ -0
over 2" up to and including 3"	+ $\frac{1}{2}$ -0
over 3" up to and including 6"	+ $\frac{3}{4}$ -0

Tolerances

Permitted Variations in Flatness of Plate Mill Plate

Table 2

Specified Thickness, t (inch)	Flatness Tolerance for Grades with Min Yield Strength < 35 ksi	Flatness Tolerance for Grades with Min Yield Strength ≥ 35 ksi
$\frac{3}{16} \leq t < \frac{1}{4}$	$\frac{7}{16}$ inch	$\frac{21}{32}$ inch
$\frac{1}{4} \leq t < \frac{3}{8}$	$\frac{3}{8}$ inch	$\frac{9}{16}$ inch
$\frac{3}{8} \leq t < 1$	$\frac{5}{16}$ inch	$\frac{15}{32}$ inch
$t \leq 1$	$\frac{1}{4}$ inch	$\frac{3}{8}$ inch

Tolerances apply to any 36 inches in any direction in the plane of the plate when plate rests on a flat surface with the concavity up. If the longer dimension is < 36 inches, the tolerance is not greater than $\frac{1}{4}$ inch.

Reference ASTM A 480 Table 2.20

Standard Thickness Tolerances for Stainless Steel Plate (all dimensions are in inches)

Table 3

Thickness	≤ 84 Wide	> 84 to ≤ 120 Wide
0.187 to ≤ 0.375	+0.045 -0.010	+0.050 -0.010
0.375 to ≤ 0.750	+0.055 -0.010	+0.060 -0.010
0.750 to ≤ 1.000	+0.060 -0.010	+0.065 -0.010
1.000 to ≤ 2.000	+0.070 -0.010	+0.075 -0.010
2.000 to ≤ 3.000	+0.125 -0.010	+0.150 -0.010
3.000 to ≤ 4.000	+0.150 -0.010	+0.160 -0.010
4.000 to ≤ 6.000	+0.180 -0.010	+0.200 -0.010
6.000 to ≤ 8.000	+0.235 -0.010	+0.255 -0.010

Reference ASTM A 480 Table 2.17

Thickness is measured along the longitudinal edges of the plate at least $\frac{3}{8}$ ", but not more than 3", from the edge.

Billing Weight for Mill Plate Products

Table 4

Thickness (inch)		Weight (lbs)	
Decimal	Fraction	Square Foot	Square Inch
0.1875	$\frac{3}{16}$	8.579	0.05958
0.2187	$\frac{7}{32}$	9.870	0.06854
0.2500	$\frac{1}{4}$	11.162	0.07750
0.3125	$\frac{5}{16}$	13.746	0.09546
0.3750	$\frac{3}{8}$	16.496	0.11456
0.4375	$\frac{7}{16}$	19.080	0.13250
0.5000	$\frac{1}{2}$	21.633	0.15044
0.5625	$\frac{9}{16}$	24.247	0.16838
0.6250	$\frac{5}{8}$	26.831	0.18633
0.6875	$\frac{11}{16}$	29.415	0.20427
0.7500	$\frac{3}{4}$	32.123	0.22308
0.8125	$\frac{13}{16}$	34.707	0.24102
0.8750	$\frac{7}{8}$	37.291	0.25897
0.9375	$\frac{15}{16}$	39.875	0.27691
1.0000	1	42.665	0.29628
1.1250	$1\frac{1}{8}$	47.833	0.33217
1.2500	$1\frac{1}{4}$	53.001	0.36806
1.3750	$1\frac{3}{8}$	58.169	0.40395
1.5000	$1\frac{1}{2}$	63.337	0.43984
1.7500	$1\frac{3}{4}$	73.672	0.51161
2.0000	2	84.008	0.58339
2.1250	$2\frac{1}{8}$	89.610	0.62229
2.2500	$2\frac{1}{4}$	94.777	0.65817
2.5000	$2\frac{1}{2}$	105.113	0.72995
2.7500	$2\frac{3}{4}$	115.449	0.80173
3.0000	3	126.301	0.87709
3.1250	$3\frac{1}{8}$	131.469	0.91298
3.2500	$3\frac{1}{4}$	136.637	0.94887
3.5000	$3\frac{1}{2}$	146.972	1.02064
3.7500	$3\frac{3}{4}$	157.308	1.09242
4.0000	4	168.264	1.16850

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New Castle Stainless Plate, LLC
 549 W. State Rd. 38, New Castle, IN 47362 USA
 Tel. 800-349-0023 Fax 765-529-8177
www.ncestainlessplate.com