



Plate Products **OUTOKUMPU**

Specifications and Sizes

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 +3/8 -0

over 2" up to and including 3" +1/2 -0

over 3" up to and including 6" +3/4 -0

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 317LMN	317LM	254 SMO®	904L	2205 Code Two	LDX 2101® Outokumpu 2304	Outokumpu 2507	321 347	309S/ 310S	253 MA®	410/ 410S
0.187	96x420 120x420	96x420		96x320	96x320	96x320	96x320	96x320	96x320	96x320	96x420 120x420	96x320	96x320	96x320
0.25	96x420 120x420	96x420		96x320	96x320	96x320	96x320	96x320	96x320	96x320	96x420 120x420	96x320	96x320	96x320
0.312	96x420 120x420	96x420		96x320 120x420	96x320 120x420	96x320	96x320	96x320	96x320	96x320	96x420 120x420	96x320	96x320	96x320
0.375	96x420 120x420	120x420	96x420	96x420 120x420	96x420 120x420	96x360	96x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x320
0.5	96x420 120x420	120x420	96x420	96x420 120x420	96x420 120x420	96x360	96x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	120x420	96x320
0.625	96x420 120x420	96x420	96x420	96x420 120x420	96x420 120x420	96x360	96x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420 120x420	96x420	96x320
0.75	96x420 120x420	120x420	96x415	96x420 120x420	96x420 120x420	96x360	96x420	96x420 120x420	96x420 120x400	96x420 120x400	96x420 120x400	96x420 120x400	120x420	96x320
1.0	96x420 120x420	120x420	96x310	96x395 120x320	96x395 120x320	96x270	96x395	96x420 120x420	96x360 120x290	96x360 120x290	96x420 120x420	96x360 120x290	120x320	96x320
1.25	96x420 120x360	120x420	96x240	96x360 120x290	96x360 120x290	96x215	96x360	96x420 120x420	96x300 120x230	96x300 120x230	96x420 120x360	96x300 120x230	120x290	96x320
1.5	96x420 120x300	120x420	96x200	96x300 120x240	96x300 120x240	96x150	96x300	96x420 120x410	96x245 120x200	96x245 120x200	96x420 120x300	96x245 120x200	120x240	96x310
1.75	96x340 120x250	120x340	96x170	96x260 120x210	96x260 120x210	96x130	96x260	96x400 120x355	96x200 120x170	96x200 120x170	96x340 120x250	96x200 120x170	120x210	96x260
2.0	96x290 120x220	120x290	96x150	96x220 120x180	96x220 120x180	96x110	96x220	96x390 120x320	96x180 120x145	96x180 120x145	96x290 120x220	96x180 120x145	120x180	96x230
2.25	96x320	96x320	96x130	96x200	96x200	96x105	96x200	96x320	96x320	96x220	96x200	96x165	96x220	96x200
2.5	96x300	96x300	96x120	96x180	96x180	96x100	96x180	96x300	96x300	96x196	96x180	96x145	96x200	96x180
2.75	96x280	96x280	96x110	96x160	96x160	96x96	96x160	96x280	96x280	96x175	96x160	96x135	96x180	96x160
3.0	96x240	96x240	96x100	96x150	96x150	96x90	96x150	96x240	96x240	96x160	96x150	96x125	96x160	72x200
3.5	96x210	96x210		96x210	96x210	96x75		96x210		96x135	96x210	120x145	96x140	72x170
4.0	96x190	96x185		96x185		96x65		96x180		96x120	96x190		96x120	72x140
4.25	96x180	96x175		96x175				96x170			96x180			
4.5	96x170	96x165		96x165				96x160			96x170			
4.75	96x160	96x155		96x155				96x155			96x160			
5.0	96x150	96x150		96x150				96x147			96x150			
5.25	96x145	96x143		96x143				96x140			96x145			
5.5	96x135	96x135		96x135				96x133			96x135			
5.75	96x130	96x130		96x130				96x127			96x130			
6.0	96x125	96x125		96x125				96x122			96x125			

* Sizes subject to slab availability - mill minimum may be required

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	+0.050
	-0.010	-0.010
0.375 to ≤ 0.750	+0.055	+0.060
	-0.010	-0.010
0.750 to ≤ 1.000	+0.060	+0.065
	-0.010	-0.010
1.000 to ≤ 2.000	+0.070	+0.075
	-0.010	-0.010
2.000 to ≤ 3.000	+0.125	+0.150
	-0.010	-0.010
3.000 to ≤ 4.000	+0.150	+0.160
	-0.010	-0.010
4.000 to ≤ 6.000	+0.180	+0.200
	-0.010	-0.010
6.000 to ≤ 8.000	+0.235	+0.255
	-0.010	-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.

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Outokumpu is a global leader in stainless steel. Our vision is to be the undisputed number one in stainless, with success based on operational excellence. Customers in a wide range of industries use our stainless steel and services worldwide. Being fully recyclable, maintenance-free, as well as very strong and durable material, stainless steel is one of the key building blocks for sustainable future.

What makes Outokumpu special is total customer focus – all the way, from R&D to delivery. You have the idea. We offer world-class stainless steel, technical know-how and support. We activate your ideas.

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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