Econ-o-**Plate**®

Hydro

Close tolerance
extruded aluminum bar
for high-speed precision machining



Econ-o-Plate®

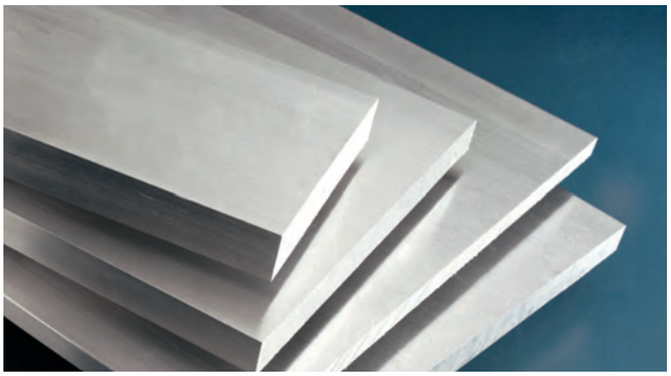
Most cost effective alternative to rolled plate

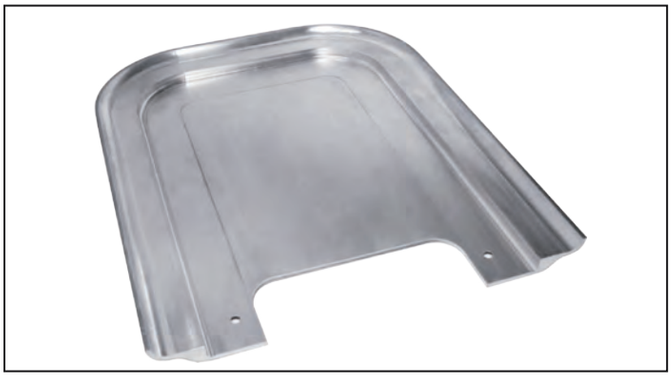
ECON-O-PLATE® offers a winning combination of properties and features that satisfy wide bar requirements at significantly lower cost:

- Better flatness than standard extruded bar – .004″ per inch of width for widths 6″ through 18″ and thicknesses .250″ through 4.000″
- ECON-O-PLATE in 6061-T6511 is an alternative to 6061-T651 rolled plate with bilateral tolerances for precision machining applications
- 6061-T6 and -T6511 ECON-O-PLATE has minimum yield strength and elongation equal to or exceeding 6061-T651 rolled plate
- ECON-O-PLATE is also available in other alloys and tempers more suitable for forming

In ECON-O-PLATE T6511 temper, residual stresses are minimized for improved machinability. With a wide choice of standard sizes, sawing-to-width can be eliminated, reducing waste and processing time. The choice of alloys and tempers also make it ideal for non-machining applications, such as bending and forming. (Contact Hydro for special forming tempers that are available.)

ECON-O-PLATE, the smart choice for attractive cost savings, is readily available from Hydro and its selected distributor partners.







Econ-o-Plate®

Comparative Tolerances[1]: Straightness, Twist, Flatness

ECON-O-PLATE®	
Longitudinal Straightness [2]	0.125″ per foot of length
Longitudinal Twist [2]	0.25°/ft, 3° max over total length
Transverse (deviation from flat)	0.004" x width

[1] Applicable tolerances when measured with weight of piece on flat surface
[2] ECON-O-PLATE -T6511, in widths 6" to 18", thickness 0.500" and above

Sawed or Sheared Rolled Plate[1] (6061-T651 temper)	Specified Thickness	Flatness Tolerance
Longitudinal Flatness	0.250″ to 3.000" 3.001" to 12.000"	0.188″ in any 6ft [2] 0.125" in any 6ft or less
Short Span Flatness [3]	0.250″ to 0.624" 0.625" to 12.000"	0.100″ 0.075"

[1] Measured with plate on flat surface concave side upward [2] For lengths less than 6ft the tolerance is 0.125" for total length
[3] Short span flatness is the deviation from flat over full span for spans 2ft and less

Comparative Thickness Tolerances (inches)

Selected Thickness	6061-T6511 ECON-O-PLATE Tolerance		6061-T651 Standard Rolled Plate Tolerance (up through 39.37″)
	Widths Less Than 10″	Widths 10″ and Greater	
3/8	± .008	± .016	± .015
1/2	± .009	± .017	± .023
3/4	± .010	± .018	± .031
1	± .012	± .019	± .039
1-1/2	± .014	± .024	± .039
2	± .024	± .034	± .055
3	± .024	± .034	± .075
4	± .034	± .044	± .130

Comparative ECON-O-PLATE Characteristics

Property	6061-T6511 Extruded ECON-O-PLATE	6061-T651 Standard Rolled Plate
Minimum Ultimate (longitudinal direction)	38,000 PSI	42,000 PSI
Minimum Yield (longitudinal direction)	35,000 PSI	35,000 PSI
Minimum % Elongation (longitudinal direction)	10%	6–10%*
Specifications	ASTM B 221 ASME SB 221	ASTM B 209 ASME SB 209

* Depending on thickness

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Standard Sizes (inches)

Thickness X Width (")	Wt./Ft.	Section #
.188 X 8.000	1.769	548879
.250 X 6.000	1.764	505000
.250 X 7.000	2.058	505001
.250 X 8.000	2.352	505002
.250 X 9.000	2.646	505003
.250 X 10.000	2.940	505004
.250 X 12.000	3.528	505005
.250 X 14.000	4.116	505006
.312 X 7.000	2.572	510241
.312 X 8.000	2.935	555783
.312 X 10.000	3.669	555782
.375 X 6.000	2.646	505014
.375 X 7.000	3.087	505015
.375 X 8.000	3.528	505016
.375 X 9.000	3.969	505017
.375 X 10.000	4.410	505018
.375 X 12.000	5.292	505019
.375 X 14.000	6.174	505020
.394 X 16.000	7.414	556516
.500 X 6.000	3.528	505021
.500 X 7.000	4.116	505022
.500 X 8.000	4.704	505023
.500 X 9.000	5.292	505024
.500 X 10.000	5.880	505025
.500 X 11.000	6.468	537968
.500 X 12.000	7.056	505026
.500 X 13.000	7.644	537001
.500 X 14.000	8.232	505027

Thickness X Width (")	Wt./Ft.	Section #
.500 X 16.000	9.408	517330
.500 X 18.000	10.584	518129
.625 X 6.000	4.410	505028
.625 X 7.000	5.145	505029
.625 X 8.000	5.880	505030
.625 X 8.500	6.248	556234
.625 X 9.000	6.615	505031
.625 X 10.000	7.350	505032
.625 X 12.000	8.820	505033
.625 X 13.000	9.555	519309
.625 X 14.000	10.290	505034
.625 X 14.567	10.707	519311
.625 X 16.000	11.760	517332
.750 X 6.000	5.292	505035
.750 X 7.000	6.174	505036
.750 X 8.000	7.056	505037
.750 X 9.000	7.938	505038
.750 X 10.000	8.820	505039
.750 X 12.000	10.584	505040
.750 X 13.000	11.466	516064
.750 X 14.000	12.348	505041
.750 X 15.000	13.230	519312
.750 X 16.000	14.112	519308
.750 X 18.000	15.876	533839
.875 X 6.500	6.689	556235
.875 X 8.000	8.232	505044
.875 X 9.000	9.261	505045
.875 X 12.000	12.348	505047
.875 X 13.000	13.377	516065

Available in standard 12 foot length. Other sizes and alloys may be available upon request.

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Standard Sizes (inches)

Thickness X Width (")	Wt./Ft.	Section #
.875 X 14.000	14.406	505048
.875 X 15.000	15.435	531491
.875 X 16.000	16.464	532992
1.000 X 9.000	10.584	505052
1.000 X 10.000	11.760	505053
1.000 X 12.000	14.112	505054
1.000 X 13.000	15.288	516421
1.000 X 14.000	16.464	505055
1.000 X 15.000	17.640	519306
1.000 X 16.000	18.816	533196
1.000 X 17.000	19.992	533353
1.000 X 18.000	21.168	518400
1.000 X 19.000	22.344	533354
1.060 X 12.000	14.959	557293
1.060 X 14.000	17.452	557292
1.125 X 6.000	7.938	556236
1.125 X 8.000	10.584	555833
1.125 X 11.000	14.553	556709
1.125 X 12.000	15.876	517207
1.125 X 12.500	16.537	517356
1.125 X 13.000	17.199	516066
1.125 X 15.000	19.845	519313
1.250 X 7.000	10.290	505057
1.250 X 9.000	13.230	505059
1.250 X 10.000	14.700	505060

Thickness X Width (")	Wt./Ft.	Section #
1.250 X 12.000	17.640	505061
1.250 X 12.500	18.375	516067
1.250 X 13.000	19.110	517208
1.250 X 13.125	19.687	506751
1.250 X 14.000	20.580	505062
1.250 X 15.000	22.050	519315
1.250 X 16.000	23.520	530310
1.250 X 18.000	26.460	533840
1.375 X 15.000	24.255	519314
1.500 X 10.000	17.640	505067
1.500 X 12.000	21.168	505068
1.500 X 12.500	22.050	517040
1.500 X 13.000	22.932	554920
1.500 X 14.000	24.696	505069
1.500 X 15.000	26.460	517210
1.500 X 16.000	28.224	555832
1.500 X 18.000	31.752	533841
1.625 X 8.000	15.288	556871
1.625 X 12.000	22.932	516719
1.625 X 14.000	26.754	516813
1.625 X 15.000	28.665	517042

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Standard Sizes (inches)

Thickness X Width (")	Wt./Ft.	Section #
1.625 X 16.000	30.576	519518
1.625 X 18.000	34.398	556780
1.750 X 5.630	11.587	556872
1.750 X 10.000	20.580	547164
1.750 X 12.000	24.696	505075
1.750 X 13.000	26.754	516814
1.750 X 14.000	28.812	505076
1.750 X 15.000	30.870	516716
1.750 X 16.000	32.928	516420
1.750 X 18.000	37.044	533849
2.000 X 10.000	23.520	505081
2.000 X 12.000	28.224	505082
2.000 X 12.500	29.400	515776
2.000 X 13.000	30.576	516718
2.000 X 14.000	32.928	505083
2.000 X 15.000	35.280	516715
2.000 X 16.000	37.632	516419
2.000 X 18.000	42.336	533842
2.125 X 16.000	39.984	533197
2.250 X 13.000	34.398	516815
2.250 X 14.000	37.044	514770
2.250 X 15.000	39.690	530423
2.250 X 16.000	42.336	533266
2.250 X 18.000	47.628	556885
2.362 X 8.000	22.222	556873

Thickness X Width (")	Wt./Ft.	Section #
2.375 X 13.000	36.309	516817
2.375 X 15.000	41.895	530422
2.375 X 16.000	44.688	533198
2.500 X 8.000	23.520	514900
2.500 X 10.000	29.399	548435
2.500 X 13.000	38.222	516510
2.500 X 14.000	41.160	517044
2.500 X 15.000	44.100	518234
2.500 X 16.000	47.040	519519
2.500 X 18.000	52.920	556862
2.750 X 11.000	35.574	556874
2.750 X 13.000	42.042	516416
2.750 X 14.000	45.276	517045
2.750 X 15.000	48.510	518235
2.750 X 16.000	51.744	530311
3.000 X 13.000	45.864	516508
3.000 X 14.000	49.392	514021
3.000 X 16.000	56.448	516418
3.000 X 18.000	63.504	556863
3.250 X 10.000	38.220	556875
3.250 X 12.000	45.864	556866
3.250 X 13.000	49.686	516711
3.250 X 16.000	61.152	519520
3.500 X 14.000	57.624	530425
3.500 X 16.000	65.856	556708
4.000 X 8.000	37.632	556865
4.000 X 14.000	65.856	533662
4.000 X 16.000	75.264	519521

Available in standard 12 foot length. Other sizes and alloys may be available upon request.

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Notes:



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