Acc-u-Plate®

Hydro

Consistency & performance
in machine grade wide bar



Acc-u-Plate®

Highest quality extruded wide bar

As part of Hydro's industry-leading ACC-U-LINE® Products, ACC-U-PLATE offers the **best total value** for extruded wide bar requirements:

- ACC-U-PLATE is an alternative to rolled plate with tolerances all on the plus side
- Controlled, **consistent flatness** in transverse and longitudinal directions
- 6061-T6, -T6511 minimum ultimate tensile strength, yield strength, and elongation equal to or exceeding 6061-T651 rolled plate.

In addition to its high physical and mechanical properties, stress-relieved (-T6511) **ACC-U-PLATE is excellent for machining precision parts**. Proven in high-speed production environments, this innovative product reduces machine setup time and extends tool life with fewer rejects and less waste.

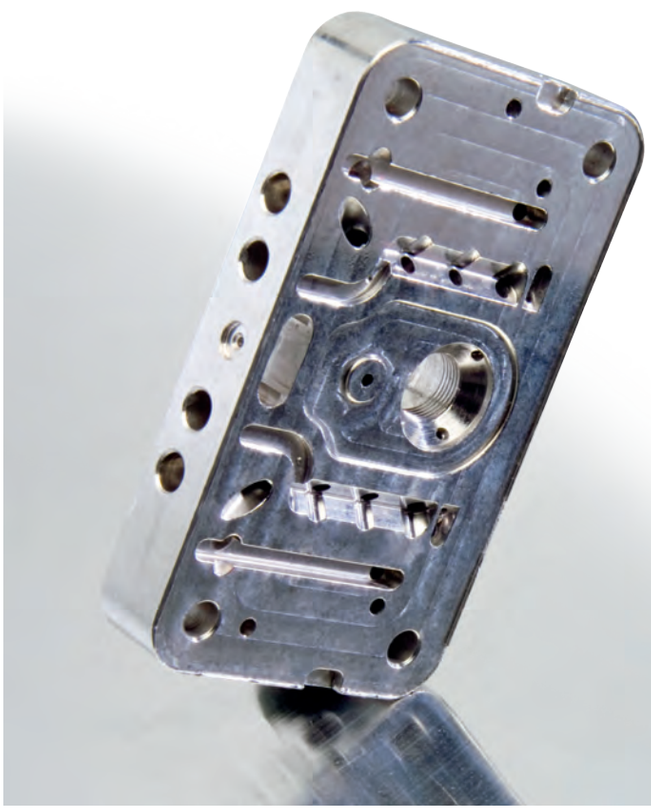
All these benefits, combined with ACC-U-PLATE's ready availability and wide choice of sizes, make it an ideal alternative to rolled plate. ACC-U-PLATE is offered by Hydro and its selected Distribution Partners.

Specify ACC-U-PLATE for:

- Molds
- Dies
- Machine Components
- Gauges
- Structural Supports
- Bases & Housings
- Tools
- Jigs & Fixtures
- Electronic Components

Available in 6061, 6082 alloys.





Flatness Tolerances[1] (deviation from flat in inches)

Direction	Surface Width/Length	ACC-U-PLATE Flatness
Longitudinal[3]	In any 2 ft. or less	.060"
Transverse	Over full width (inches)	.0025" x width[2]

1 Measured with weight of piece on flat surface
2 Transverse flatness does not apply to one-inch increments
3 Maximum deviation for total flatness includes twist and straightness

ACC-U-PLATE® is a registered trademark of Hydro.

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Sawed or Sheared Rolled Plate[1] (6061-T651 temper)

Direction		Specified Thickness	Flatness Tolerance
Longitudinal Flatness		.250" - 3.000"	0.188" in any 6 ft [2]
		3.001" - 12.000"	0.125" in any 6 ft or less
Short Span Flatness [3]		.250" - .624"	0.100"
		.625" - 12.000"	0.075"

[1] Measured with plate on flat surface concave side upward
[2] For lengths less than 6 ft, the tolerance is .125" for total length
[3] Short-span flatness is the deviation from flat over full span for spans 2 ft and less

Comparative Mechanical Properties

Property		ACC-U-PLATE* 6061-T6, -T6511	ACC-U-PLATE[2] 6082-T6, -T6511	Rolled Plate 6061-T651
Min. Ultimate Tensile (ksi)	Longitudinal direction	42.0[1]	45.0	42.0
Min. Yield Tensile (ksi)	Longitudinal direction	35.0	38.0	35.0
Min. Elongation %	Longitudinal direction	10	8	6-10 (based on thickness)
Typical Hardness Brinell (500Kg load, 10mm ball)		95	95	95
Typical Ultimate Shear Strength (ksi)		30	31	30
Standard Specifications[3]		ASTM B 221 ASME SB 221	ASTM B 221	ASTM B 209 ASME SB 209

[1] Minimum tensile strength for less than .375" thickness; ACC-U-PLATE® is 38.0 ksi.
[2] For .751" to 6.000" thickness
[3] ACC-U-PLATE® product 0.375" thickness and greater in 6061-T6/T6511 alloy temper meets 6061-T651 tensile strength, yield strength, and elongation minimums of rolled plate produced per AMS-QQ-A-250/11 and ASTM B 209.

Comparative Tolerances** (inches)

Thickness	ACC-U-PLATE[1] Extruded 8" and greater widths	Rolled Plate-Non Aerospace 6061-T651 39.37" thru 59.06" widths
Inches	Inches	Tolerance-Inches
0.250	+.016" [2]	+/- .014"
0.375	+.016"	+/- .017"
0.500	+.022"	+/- .023"
0.750	+.030"	+/- .031"
1.000	+.038"	+/- .039"
1.250	+.038"	+/- .039"
1.500	+.038"	+/- .039"
1.750	+.048"	+/- .055"
2.000	+.054"	+/- .055"
2.250	+.054"	+/- .055"
2.500	+.074"	+/- .075"
3.000	+.074"	+/- .075"
3.500	+.100"	+/- .100"
4.000	+.130"	+/- .130"

ACC-U-PLATE is available in standard sizes from Hydro and Premier® Distribution Partners.
[1] ACC-U-PLATE® tolerances are all on plus side [2] Thickness tolerance for widths over 12.000" is +.025/-.000"

** For lengths over 12 ft., inquire about tolerances

Acc-u-Plate®

Consistent accuracy and performance...

Standard Sizes (Inches)

Thickness X Width (")		Wt./Ft.	Section #
.250 (+.016) X	8.000 (+.108)	2.444	510969*
.250 (+.016) X	10.000 (+.148)	3.056	510970*
.250 (+.016) X	12.000 (+.168)	3.667	510971*
.250 (+.025) X	14.000 (+.168)	4.343	510623*
.312 (+.025) X	12.000 (+.168)	4.611	514124*
.375 (+.016) X	8.000 (+.108)	3.637	510972
.375 (+.016) X	10.000 (+.148)	4.549	510973
.375 (+.016) X	12.000 (+.168)	5.457	510974
.375 (+.016) X	14.000 (+.188)	6.481	510624
.500 (+.022) X	8.000 (+.108)	4.840	510975
.500 (+.022) X	10.000 (+.148)	6.054	510976
.500 (+.022) X	12.000 (+.168)	7.262	510977
.500 (+.022) X	14.000 (+.188)	8.470	510625
.500 (+.022) X	16.000 (+.208)	9.753	518673
.625 (+.022) X	8.000 (+.108)	6.023	510978
.625 (+.022) X	10.000 (+.148)	7.535	510979
.625 (+.022) X	12.000 (+.168)	9.038	510980
.625 (+.022) X	14.000 (+.188)	10.541	510626
.625 (+.022) X	16.000 (+.208)	12.045	518674
.750 (+.030) X	8.000 (+.108)	7.245	510981
.750 (+.030) X	10.000 (+.148)	9.063	510982
.750 (+.030) X	12.000 (+.168)	10.871	510983
.750 (+.030) X	14.000 (+.188)	12.680	510627
.750 (+.030) X	16.000 (+.208)	14.488	515521
.750 (+.030) X	18.000 (+.228)	16.296	518675
.875 (+.030) X	10.000 (+.148)	10.544	510985
.875 (+.030) X	12.000 (+.168)	12.648	510986
.875 (+.031) X	14.000 (+.188)	14.760	510628
.875 (+.030) X	16.000 (+.208)	16.964	515522
.875 (+.030) X	18.000 (+.228)	18.959	518704
1.000 (+.038) X	10.000 (+.148)	12.072	510988
1.000 (+.038) X	12.000 (+.168)	14.481	510989
1.000 (+.038) X	13.000 (+.168)	15.680	514801
1.000 (+.038) X	14.000 (+.188)	16.890	510629
1.000 (+.038) X	15.000 (+.188)	18.088	514789
1.000 (+.038) X	16.000 (+.208)	19.298	515175
1.000 (+.038) X	18.000 (+.228)	21.707	515458
1.125 (+.038) X	12.000 (+.168)	16.257	514059
1.125 (+.038) X	16.000 (+.208)	21.665	517333
1.125 (+.038) X	18.000 (+.228)	24.370	515788
1.250 (+.038) X	8.000 (+.108)	12.020	510990
1.250 (+.038) X	10.000 (+.148)	15.034	510991
1.250 (+.038) X	12.000 (+.168)	18.034	510992
1.250 (+.038) X	14.000 (+.188)	21.033	510630
1.250 (+.038) X	16.000 (+.208)	24.033	515523
1.250 (+.038) X	18.000 (+.228)	27.033	515789
1.375 (+.038) X	12.000 (+.168)	19.817	514061
1.375 (+.038) X	14.000 (+.188)	23.105	514062

Available In 6061 AND 6082 Alloys; Standard 12 ft. lengths. For lengths over 12 ft., inquire about tolerances.
*See comparative mechanical properties and tolerance tables.
Other sizes may be available upon request.

in machine grade wide bar

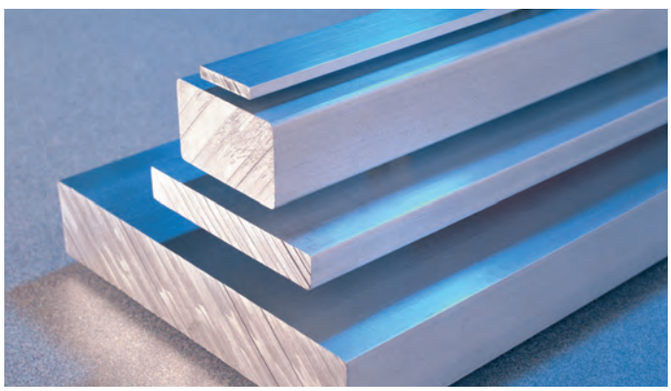
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Standard Sizes (Inches) *continued*

Thickness X Width (")		Wt./Ft.	Section #
1.500 (+.038) X	10.000 (+.148)	17.995	510994
1.500 (+.038) X	12.000 (+.168)	21.587	510995
1.500 (+.038) X	14.000 (+.188)	25.177	510761
1.500 (+.038) X	16.000 (+.208)	28.767	515524
1.500 (+.038) X	18.000 (+.228)	32.358	515459
1.625 (+.038) X	12.000 (+.168)	23.363	514063
1.625 (+.038) X	16.000 (+.208)	31.135	517335
1.750 (+.048) X	8.000 (+.108)	16.803	510996
1.750 (+.048) X	10.000 (+.148)	21.016	510997
1.750 (+.048) X	12.000 (+.168)	25.210	510998
1.750 (+.048) X	14.000 (+.188)	29.404	510631
1.750 (+.048) X	16.000 (+.208)	33.596	515525
2.000 (+.054) X	10.000 (+.148)	24.014	511000
2.000 (+.054) X	12.000 (+.168)	28.805	511001
2.000 (+.054) X	14.000 (+.188)	33.597	510632
2.000 (+.054) X	16.000 (+.208)	38.388	515176
2.250 (+.054) X	10.000 (+.148)	26.976	514018
2.250 (+.054) X	14.000 (+.188)	37.740	514558

Thickness X Width (")		Wt./Ft.	Section #
2.250 (+.054) X	16.250 (+.208)	43.792	532486
2.500 (+.074) X	10.000 (+.188)	30.116	514020
2.500 (+.074) X	12.000 (+.168)	36.083	515093
2.500 (+.074) X	14.000 (+.188)	42.050	515092
2.500 (+.074) X	16.000 (+.208)	48.045	515526
3.000 (+.074) X	10.000 (+.148)	35.979	515095
3.000 (+.074) X	12.000 (+.168)	43.158	515096
3.000 (+.074) X	14.000 (+.188)	51.075	515094
3.000 (+.074) X	16.000 (+.208)	57.516	515527
3.500 (+.100) X	12.000 (+.168)	50.448	516403
3.500 (+.100) X	14.000 (+.188)	58.840	516404
3.500 (+.100) X	16.000 (+.208)	67.231	518716
4.000 (+.130) X	10.000 (+.148)	48.158	518718
4.000 (+.130) X	12.000 (+.168)	57.770	516405
4.000 (+.130) X	14.000 (+.188)	67.375	516406

Available In 6061 AND 6082 Alloys; Standard 12 ft. lengths. For lengths over 12 ft., inquire about tolerances.
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Notes:

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Notes:



Extrusion North America
6250 North River Rd, Suite 5000 • Rosemont, IL 60018
Phone: 877-710-7272
E-mail: NorthAmerica.Sales@hydro.com

www.hydro.com

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