

BOAT TRAILER SCHEMATIC

Your one-stop-shop for manufacturing aluminum boat trailers!



BOAT TRAILER

EMS FEATURES:

Extensive Stocking Inventory of High Quality I-Beams & Channels • Bent and Straight Cross Members • Pre-Fabbed Boat Bunks with Pads • Extruded & Knurled Fenders • Aluminum Guide Poles & PVC Guide Pole Covers • Aluminum Guide Poles & PVC Guide Pole Covers Standard Aluminum Extrusions & Sheet



PROUD MEMBERS:



A) BOAT TRAILER I-BEAMS



B) CROSS MEMBERS



C) TONGUES (Inset Above)



D - D4) BUNKS, PADS & BRACKETS



E) FENDERS F) STEP PADS



G) GUIDE POLES & COVERS



ALL BOAT TRAILER ITEMS AVAILABLE FROM EMS!



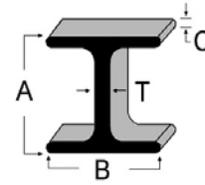
www.easternmetal.com • info@easternmetal.com 02/25/25

FL: 800-432-2204 • NC/DE/GA: 800-343-8154 • TX/LA: 800-996-6061 • MO/OH/IN: 888-822-6061



Boat Trailer Aluminum I-Beams

Size in Inches (A x B x C / T) - 6061-T6 Full Radius



FULL SIZE

4 x 3 x .285 / .170	2.774 #/ft
<u>16-64-205</u> x 18' 6"	51.319 #/pc
<u>16-64-207</u> x 20'	55.480 #/pc

6 x 4 x .350 / .210	4.681 #/ft
<u>16-64-240</u> x 25'	117.00 #/pc
<u>16-64-245</u> x 28'	131.04 #/pc

8 x 5 x .410 / .250	7.020 #/ft
<u>16-64-300</u> x 30'	210.60 #/pc
<u>16-64-308</u> x 32'	224.64 #/pc
<u>16-64-310</u> x 35'	245.70 #/pc
<u>52-61-1711</u> x 37'	259.74 #/pc
<u>16-64-320</u> x 40'	280.80 #/pc
<u>52-61-1436</u> x 45'	315.90 #/pc

7 x 4.5 x .380 / .230	5.499 #/ft
<u>16-64-255</u> x 28'	153.97 #/pc
<u>16-64-259</u> x 31'	170.47 #/pc

10 x 6 x .500 / .290	10.286 #/ft
<u>16-64-330</u> x 40'	411.44 #/pc
<u>16-64-340</u> x 45'	462.87 #/pc

12 x 7 x .620/.310	14.098 #/ft
<u>16-64-445</u> x 45'	634.41 #/pc
<u>16-64-450</u> x 50'	704.90 #/pc
<u>16-64-455</u> x 55'	775.39 #/pc

HALF SIZE

3.5 x 2.5 x .25 / .15	2.033 #/ft
<u>52-61-4205B</u> x 18' 6"	37.611 #/pc
<u>52-61-2489B</u> x 25'	50.825 #/pc

4.5 x 3 x .260/.175	2.713 #/ft
<u>16-61-289</u> x 13'	35.269 #/pc
<u>16-61-290</u> x 14'	37.982 #/pc
<u>16-61-295</u> x 15'	40.695 #/pc
<u>16-61-300</u> x 16'	43.408 #/pc
<u>16-61-308</u> x 17'	46.121 #/pc
<u>16-61-310</u> x 18'	48.834 #/pc
<u>16-61-320</u> x 18' 6"	50.191 #/pc
<u>16-61-325</u> x 19' (TX)	51.547 #/pc
<u>16-61-330</u> x 20'	54.260 #/pc
<u>16-61-335</u> x 21'	56.973 #/pc
<u>16-61-340</u> x 22'	59.686 #/pc
<u>16-61-345</u> x 30'	81.39 #/pc

6.5 x 4 x .310/.220	4.561 #/ft
<u>52-61-4587</u> x 19'	86.659 #/pc
<u>16-61-490</u> x 20'	91.220 #/pc
<u>16-61-495</u> x 21'	95.781 #/pc
<u>16-61-500</u> x 22'	100.342 #/pc
<u>16-61-510</u> x 23'	104.903 #/pc
<u>16-61-520</u> x 25'	114.025 #/pc
<u>16-61-525</u> x 26'	118.586 #/pc
<u>16-61-530</u> x 27'	123.147 #/pc
<u>16-61-535</u> x 28'	127.708 #/pc
<u>16-61-540</u> x 30'	136.830 #/pc

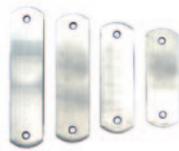
HALF SIZE (continued)

5.5 x 3.5 x .280/.195	3.524 #/ft
<u>16-61-380</u> x 16'	56.384 #/pc
<u>16-61-390</u> x 18'	63.432 #/pc
<u>16-61-395</u> x 19'	66.956 #/pc
<u>16-61-400</u> x 20'	70.480 #/pc
<u>16-61-410</u> x 21'	74.004 #/pc
<u>16-61-415</u> x 22'	77.528 #/pc
<u>16-61-420</u> x 23'	81.052 #/pc
<u>16-61-430</u> x 25'	88.100 #/pc
<u>16-61-435</u> x 30'	105.72 #/pc

7.5 x 4.375 x .350/.230	5.584 #/ft
<u>16-61-600</u> x 25'	139.600 #/pc
<u>16-61-605</u> x 26'	145.184 #/pc
<u>52-61-1379</u> x 27'	150.768 #/pc
<u>16-61-608</u> x 28'	156.352 #/pc
<u>16-61-610</u> x 30'	167.520 #/pc
<u>16-61-620</u> x 32'	178.688 #/pc
<u>52-61-1339</u> x 33'	184.272 #/pc
<u>16-61-630</u> x 35'	195.440 #/pc
<u>16-61-635</u> x 38'	212.192 #/pc

I-Beam Tie Strap (7/16" holes)

<u>52-63-9356</u>	8-1/2 x 2 x 1/4
<u>52-63-9355</u>	7-3/4 x 2 x 1/4
<u>52-63-9354</u>	6-3/4 x 2 x 1/4



I-Beam Tie Straps

PROUD MEMBERS:



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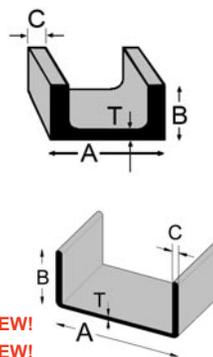
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Boat Trailer Components

Structural Channel x 25' - Aluminum Association - 6061-T6 (Unless Noted Otherwise)

Stock Code	Size in Inches (A x B x C x T)	Appr. Wt/Lin ft
13-61-535	5 x 2.75 x .320 / .190	3.089
13-61-545	6 x 3.25 x .350 / .210	4.030
52-61-593	7 x 3.50 x .380 / .210	4.715
52-61-1707	8 x 3.75 x .410 / .250 x 14' 9"	5.787
13-61-561	8 x 3.75 x .410 / .250 x 15'	5.787
52-61-1503	8 x 3.75 x .410 / .250 x 16' 9"	5.787
13-61-563	8 x 3.75 x .410 / .250	5.787
13-61-565	8 x 3.75 x .410 / .250 x 30'	5.787
13-61-562	8 x 3.75 x .410 / .250 x 32'	5.787
13-61-564	8 x 3.75 x .410 / .250 x 40'	5.787
5008-30BC	8 x 3.75 x .410 / .250 x 30'	5.730 (with Full Radius) - NEW!
5008-32BC	8 x 3.75 x .410 / .250 x 32'	5.730 (with Full Radius) - NEW!
13-61-570	10 x 3.5 x .410 / .250	6.136
13-61-571	10 x 3.5 x .410 / .250 x 40'	6.136
13-61-572	10 x 3.5 x .410 / .250 x 45'	6.136
13-61-580	12 x 4 x .470 / .290 x 50'	8.274



Cross Members (Straight & Bent)

Additional Structural Channel Available - STANDARD EXTRUSIONS p10

3" x 3" Straight Cross Members 6061-T6

52-61-749	3 x 3/16 x 18"	2.502
52-61-750	3 x 1/4 x 18"	3.204
52-61-778C	3 x 1/4 x 52-1/2"	3.204
52-61-779	3 x 1/4 x 59-1/2"	3.204
52-61-778A	3 x 1/4 x 71-1/2"	3.204
52-61-778B	3 x 1/4 x 79-1/2"	3.204



3" Square Plastic End Cap
Fits 3" Cross Members
SQ3DBK - **NEW!**

3" x 3" Straight Cross Members (6063-T6 for bending)

Available in various lengths and cuts, mitre or straight, for Mill Order quantities

52-63-8188	3 x 3/16 x 25' (.188 radius)	2.502
51-63-897	3 x 1/4 x 18' 3"	3.204
52-63-8441	3 x 1/4 x 25'	3.204

3" x 3" x 1/4" Bent Cross Members (6063-T6)

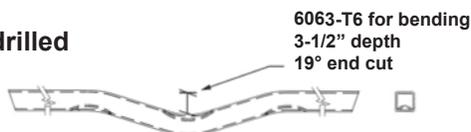
90° End Cut, 2-3/4" depth bend

275-90-59	3 x 1/4 x 59"
275-90-72	3 x 1/4 x 72"
275-90-80	3 x 1/4 x 80"
275-90-100	3 x 1/4 x 100"
275-90-104	3 x 1/4 x 104"



19° End Cut, 3-1/2" depth bend; pre-drilled

350-19-63	3 x 1/4 x 63"
350-19-72.5	3 x 1/4 x 72-1/2"
350-19-80.5	3 x 1/4 x 80-1/2"



3" x 3" x 3/16" Bent Cross Members (6063-T6)

90° End Cut, 2-3/4" depth bend

SPECIAL ORDER	275-188-59	x 59"
SPECIAL ORDER	275-188-72	x 72"
SPECIAL ORDER	275-188-80	x 80"
SPECIAL ORDER	275-188-100	x 100"

Additional Radius Square & Rect Tube Available: STANDARD EXTRUSIONS pp11-12

Grip Rail

Stock Code	Polished & Anod	Stock Code	Mill Finish
GR-12	12"	GRM-12	12"
GR-14	14"	GRM-14	14"
GR-18	18"	GRM-18	18"
GR-24	24"	GRM-24	24"
GR-36	36"	GRM-36	36"



Grip Rail

Items marked as MILL ORDER are non stock but available. Product codes listed on MILL ORDER items are for die reference only. Customer must specify length, alloy & temper.



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BOAT TRAILERS - Bunks, Pads, End Caps & Brackets

4" Universal Bunk

6063-T6 Mill Finish
(Flat, 19°, 24°, 28°)
40-63-2716 x 6'
40-63-2718 x 8'
40-63-27112 x 12'
40-63-271 x 24'

4" Prefabbed Universal Bunk

40-63-271F x 6'
40-63-271F8 x 8'
40-63-271F12 x 12'

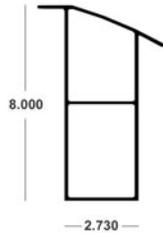


8" Universal Bunk

6063-T6 Mill Finish
(Flat, 19°, 24°, 28°)
40-63-280 x 10'
40-63-273 x 12'
40-63-274 x 14'
40-63-276 x 16'
40-63-275 x 24'

8" Prefabbed Universal Bunk

40-63-270F x 8'
40-63-280F x 10'
40-63-273F x 12'
40-63-274F x 14'
40-63-276F x 16'

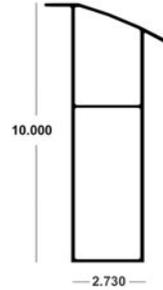


10" Universal Bunk

6063-T6 Mill Finish
(Flat, 19°, 24°, 28°)
40-63-282 x 10'
40-63-281 x 12'
40-63-279 x 14'
40-63-277 x 16'
40-63-278 x 24'

10" Prefabbed Universal Bunk

40-63-2816F x 6' - **NEW!**
40-63-278F8 x 8'
40-63-282F x 10'
40-63-281F x 12'
40-63-279F x 14'
40-63-277F x 16'
40-63-283F x 18'

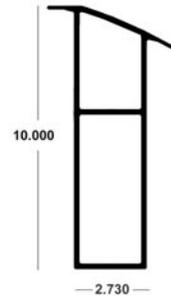


10" HD Universal Bunk

6005A-T61 Mill Finish
(Flat, 19°, 24°, 28°)
40-05-277 x 16'
40-05-278 x 24'

10" Prefabbed HD Universal Bunk

40-05-277F x 16'



Universal Bunk End Cap

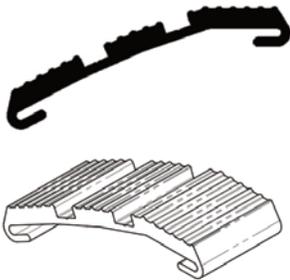
13-63-285
3 x 1 x 1/8 x 20'
Used as end caps for ALL Universal Bunks



Universal Bunk Pad

COMING SOON

HDPE Special
40-HDPE-0516 x 16'
40-HDPE-0520 x 20'



Universal Bunk Pad End Caps

UNVBUNK
Left and Right Universal Bunk End Caps
Black Nylon



Adjustable Bunk Bracket

52-61-0025 x 5"
52-61-002 x 12' 3"
with 4 Holes
Accepts 2" Square Tube
with .250 Radius



.300 x 5" Bunk Bracket Angle

40-63-430 2 x 2-1/2
40-63-225 2 x 5-3/4
40-63-220 2 x 8
40-63-218 2 x 10

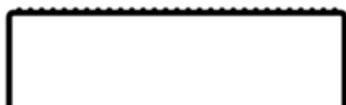
.375 x 5" Bunk Bracket Angle

40-63-212 2.5 x 12



2 x 6 Flat Bunk Pad - **NEW!**

HDPE
40-HDPE-2612 x 12'
40-HDPE-2616 x 16'
40-HDPE-2620 x 20'
For 2 x 6 Wood or Aluminum



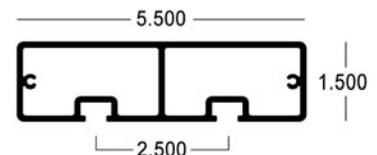
2 x 6 Flat Bunk End Cap - **NEW!**

40-FBEC-26125
For 2 x 6 Wood



2 x 6 Flat Bunk x 24' 2" - **COMING SOON**

SPECIAL ORDER 1-00-001
6005A-T61 Mill Finish
For Boat Trailers & Lifts
Accepts #8 SS Flat Head Screws



Fenders - Single, Tandem and Triple Axle

.100 Tread Brite - Roll Form Fenders

	Size in Inches (Width x Tip-to-Tip x Height)	Wheel Size	Notes
Single Axle			
50-00-027571EZ	8 x 31.5 x 14	13"/14"	
50-00-306	9 x 28-1/2 x 13-3/4	13"/14"	
50-00-302	9 x 31 x 15+	13"/14"	
50-00-308	9 x 33-1/4 x 17-1/2	13"/14"	
50-00-303	10 x 31 x 16	14"/15"	
Tandem Axle			
50-00-309	9 x 60 x 15 (14" Radius)	13"/14"	
50-00-304	9 x 62 x 14 (14" Radius)	13"/14"	
50-00-311	10 x 64 x 13 (12-1/2" Radius)	14"/15"/16"	- 2 oblong holes for knurled step pad
<u>50-00-311NH</u>	10 x 64 x 13 (12-1/2" Radius)	14"/15"/16"	- NO HOLES
50-00-310	10 x 68 x 16 (14-1/2" Radius)	14"/15"/16"	- Also available with sharper side radius
50-00-403	10 x 72 x 18	14"/15"/16"	
Triple Axle			
50-00-312	10 x 103 x 18 (15" Radius)	14"/15"/16"	
50-00-412	10 x 110 x 18 (15" Radius)	14"/15"/16"	
Tear Drop			
50-TD-309	9 x 60 x 15 (14" Radius)	13"/14"	
50-TD-310	10 x 68 x 16 (14" Radius)	14"/15"/16"	
Jeep Style			
50-00-501	10 x 32 x 14	13"/14"	
50-00-502	10 x 68 x 16	13"/14"	
<u>50-00-403J</u>	10 x 72 x 18	14"/15"/16"	
50-00-312J	10 x 103 x 18	14"/15"/16"	



Single Axle Fender



Tandem Axle Fender



Tri-Axle Fender



Tear Drop Fender



Tandem Jeep Style Fender



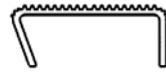
Extruded & Knurled Fender

EXTRUDED and KNURLED Fenders - 6063-T52 - NEW!

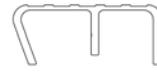
	Size in Inches (Width x Tip-to-Tip x Height)	Wheel Size
Single Axle		
<u>55-EX-302</u>	9 x 31 x 15 SINGLE AXLE	13"/14"
<u>55-EX-309</u>	9 x 60 x 15 TANDEM AXLE	13"/14"
<u>55-EX-310</u>	10 x 68 x 16 TANDEM (14-1/2" Radius)	14"/15"/16"
<u>55-EX-312</u>	10 x 103 x 18 TRIPLE (15" Radius)	14"/15"/16"

Angled Step Pads (for use with Round Fenders above):

Stock Code	Size in Inches	Approx. Wt/Lin ft
<u>52-61-2814</u>	4 x 1-1/2 x 15"	1.375
16-61-800	4 x 1-1/2 x 12'	1.375
52-61-1857* (TX)	4 x 1-1/2 x 25'	1.538 *with 3rd Leg/Stiffener



Angled Step Pad

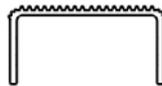


Angled Step Pad 3rd Leg Stiffener

90° Knurled Step Pads (for use with Jeep Style

Box Type Fenders & some Round Fenders):

16-61-900	4 x 2 x 13"	1.591
16-61-905	4 x 2 x 15"	1.591
16-61-955	4 x 2 x 15' 5"	1.591
16-61-960	4 x 2 Step Pad End Cap - NEW!	



90° Knurled Step Pad



4 x 2 Step Pad End Cap

Aluminum Guide Poles

52-63-9962	1-1/2" x 1/8" x 66" Sq. Tube w/Radius; w/Welded Tab (33" height from tab)
<u>52-63-9963</u>	1-1/2" x 1/8" x 88" Sq. Tube w/Radius; w/Welded Tab (55" height from tab)
<u>52-63-8125 - NEW!</u>	1-1/2" x 3/16" x 88" Sq. Tube w/Radius; w/Welded Tab (55" height from tab)



Aluminum Guide Pole with Welded Tab



PVC Guide Pole Cover

PVC Guide Pole Covers (with Caps Glued On; No Stenciling) - NEW!

<u>25-PVC-048</u>	2" SCH 40 x 48"
<u>25-PVC-060</u>	2" SCH 40 x 60"
<u>25-PVC-072</u>	2" SCH 40 x 72"
<u>25-PVC-080</u>	2" SCH 40 x 80"
<u>25-PVC-120</u>	2" SCH 40 x 120"

Miscellaneous Fender Brackets & Tie Plate Spacers Available Upon Request

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PVC GUIDE POLE COVERS

FOR BOAT TRAILER AND LIFT APPLICATIONS



PVC Pipe for GUIDE POLES

With Caps Glued On; No Stenciling

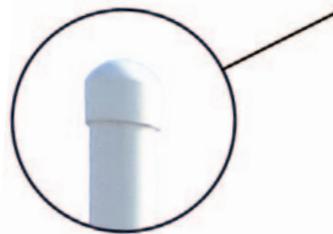
25-PVC-048 2" SCH 40 x 48"

25-PVC-060 2" SCH 40 x 60"

25-PVC-072 2" SCH 40 x 72"

25-PVC-080 2" SCH 40 x 80"

25-PVC-120 2" SCH 40 x 120"



NOW IN STOCK!

PVC Guide Pole Cover



Also Available:

Aluminum Guide Poles

52-63-9962 1-1/2" x 1/8" x 66" Sq. Tube w/Radius w/Welded Tab (33" height from tab)

52-63-9963 1-1/2" x 1/8" x 88" Sq. Tube w/Radius w/Welded Tab (55" height from tab)

52-63-8125 1-1/2" x 3/16" x 88" Sq. Tube w/Radius - **NEW!** w/Welded Tab (55" height from tab)



Aluminum Guide Pole with Welded Tab (Tab located to the Inside)



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