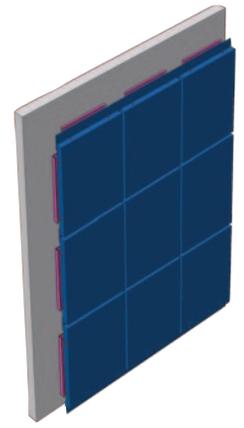


# EMS-1000 ACM Rainscreen Panel Attachment System



## CODE APPROVALS:

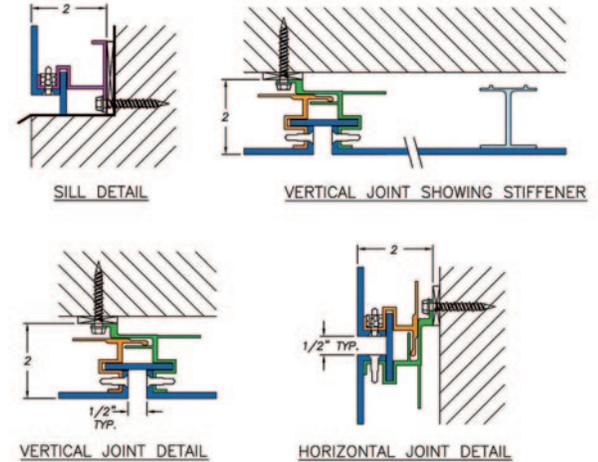
when mounting **ALUCOBOND PLUS** PANELS with EMS' proprietary extrusions as noted.

- AAMA 509-09 DBV rainscreen
- NFPA 285 flame spread
- ASTM E330 deflection
- ASTM E72 serviceability testing

## ALUCOBOND PLUS



Detail views are shown as Dry Seal with no continuous insulation



<p><b>H-Stiffener x 16'</b> 52-63-3AC100</p>	<p><b>Male Rainscreen x 16'</b> 52-63-3AC200 <i>Mates with 52-63-3AC300</i></p>	<p><b>Female Rainscreen x 16'</b> 52-63-3AC300 <i>Mates with 52-63-3AC200</i></p>
<p><b>Rainscreen T x 16'</b> 52-63-3AC400 <i>Used as wall perimeter framing</i></p>	<p><b>Corner Key x 0.593"</b> 1.5" Angle x .063 52-63-3AC500 No Holes</p> <p><b>Reinforcement Angle x 20'</b> 2" x 2" Angle x .063 11-63-310</p>	<p>Use Your Phone's Camera to <b>SCAN QR CODE</b> for <b>Installation Instruction Guide:</b></p>

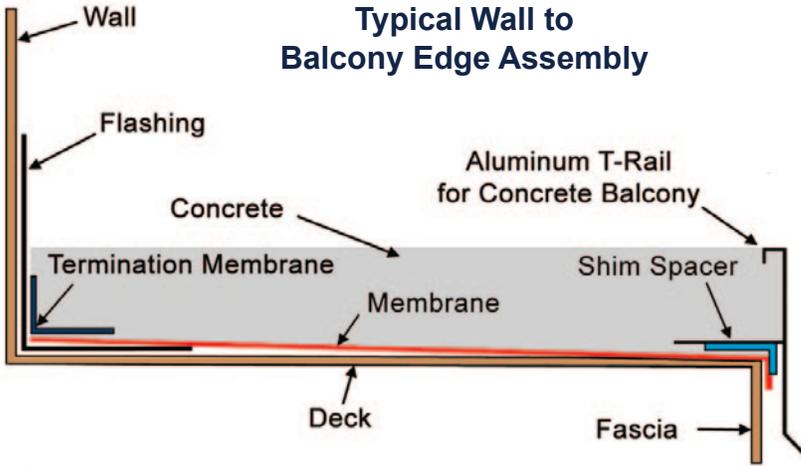
# Extruded Aluminum ACM Panel Clip System

<p><b>Wet Seal Male</b> MILL ORDER <u>52-63-13113</u></p>	<p><b>Wet Seal Female</b> MILL ORDER <u>52-63-12999</u></p>	<p><b>Wet Seal Tee</b> MILL ORDER <u>52-63-13822</u></p>	<p><b>Tie Back H-Retainer (W/D)</b> MILL ORDER <u>52-63-13520</u></p>	<p><b>Perimeter Frame (W/D)</b> MILL ORDER <u>52-63-13693</u></p>
<p><b>Double Track (W/D)</b> MILL ORDER <u>52-63-13691</u></p>	<p><b>Single Track (W/D)</b> MILL ORDER <u>52-63-13692</u></p>	<p><b>J-Clip Starter (W/D)</b> MILL ORDER <u>52-63-14109</u></p>	<p><b>C-Stiffener x 20' (W/D)</b> 3/4 x 3/4 x 1/8 Channel 13-63-211</p>	<p><b>Angles x 20'</b> 11-63-210 3/4 x 3/4 x 1/8 11-63-225 1 x 1 x 1/8 11-63-270 1-1/2 x 1-1/2 x 1/16 11-63-275 1-1/2 x 1-1/2 x 1/8</p>



# Concrete T-Rails & Forming

Typical Wall to Balcony Edge Assembly



## Features & Benefits:

- aluminum surface gives a clean finished look
- aluminum form will never show brown rust stains typical of steel
- aluminum T-rail will maintain an attractive finish for many years
- aluminum T-rail becomes an integral form for the deck
- drip rail design directs water away from the balcony/sidewalk below
- light weight aluminum results in easier installation
- flexible extruded aluminum product allows faster pour set up

## Additional Sizes Available by Special Order

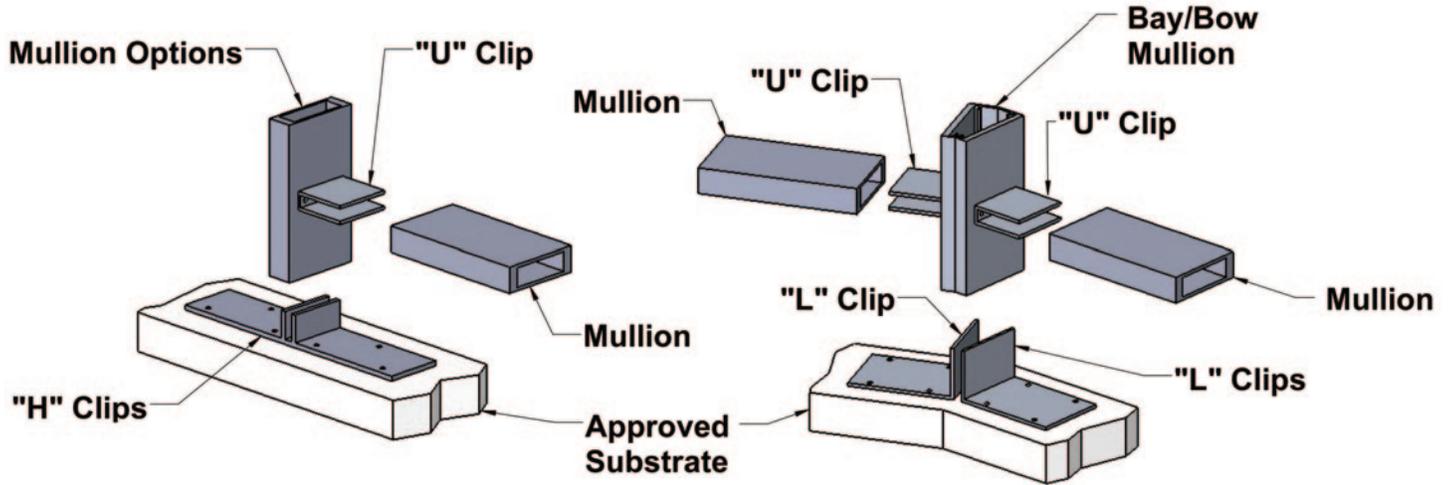
<p><b>1-1/2" T-Rail x 10'</b>  <b>90-63-1000 (NC/TX)</b>  <b>52-63-12790</b>                      with Drip Edge; Light Wall</p>	<p><b>1-1/2" T-Rail</b>                      MILL ORDER 51-63-275 (NC)                      (stair applications)</p>	<p><b>1-1/2" T-Rail</b>                      MILL ORDER 90-63-1567 (NC)                      with 3" Nailing Fin</p>	<p><b>2" T-Rail</b>                      MILL ORDER 50473 (NC)                      with Drip Edge</p>	<p><b>Concrete Shoring Beam</b>                      MILL ORDER EMSINT33252</p>
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# Engineered Window Mullion and Clip Extrusions

Our Mullions can be used with any Approved Fenestration Product, under separate approval.

Florida Building Code Approved by Engineering - Tube Mulls: FL17472.2 • Bay/Bow Mulls: FL17472.1



<p>1 x 3-1/8 Light MULLION x 24' Wall: 1/8" &amp; 3/8" <b>54314-MBP-1</b> Bronze <b>54314-WHP-1</b> White <b>54314-DS-1</b> Desert Sand</p>	<p>1 x 3-1/8 Heavy MULLION x 24' Wall: 1/8" &amp; 5/8" <b>54315-MBP-1</b> Bronze <b>54315-WHP-1</b> White</p>	<p>1 x 4 MULLION x 24' Wall: 1/4" <b>610236-MBP-1</b> Bronze <b>610236-WHP-1</b> White</p>	<p>2 x 4 MULLION x 24' Wall: 1/4" <b>35097-MBP-1</b> Bronze <b>35097-WHP-1</b> White</p>	<p>2 x 6 MULLION x 24' Wall: 1/4" <b>610068-MBP-1</b> Bronze <b>610068-WHP-1</b> White</p>
<p>22.5° BAY/BOW MULLION x 24' <b>54306-MBP-1</b> Bronze <b>54306-WHP-1</b> White</p>	<p>30° BAY/BOW MULLION x 24' <b>59701-MBP-1</b> Bronze <b>59701-WHP-1</b> White</p>	<p>45° BAY/BOW MULLION x 24' <b>54308-MBP-1</b> Bronze <b>54308-WHP-1</b> White</p>	<p>90° BAY/BOW MULLION x 24' <b>54307-MBP-1</b> Bronze <b>54307-WHP-1</b> White</p>	
<p>1 x 3-1/8 Mullion H-Clip x 12' <b>54316-63-1</b> Mill Finish Mates with 1 x 3-1/8 Mullions FABBED: for 1 x 3-1/8 Light Mullion <b>80000</b> x 2-1/4" (6 holes) for 1 x 3-1/8 Heavy Mullion <b>80001</b> x 1-3/4" (6 holes)</p>	<p>1 x 4 Mullion H-Clip x 12' <b>54442-63-1</b> Mill Finish Mates with 1 x 4 Mullion FABBED: for 1 x 4 Mullion <b>80009</b> x 3-3/8" (8 holes)</p>	<p>1 x 3-1/8 Mullion U-Clip x 12' <b>52-63-11886</b> Mill Finish Mates with 1 x 3-1/8 Mullions FABBED: for 1 x 3-1/8 Light Mullion <b>80008</b> x 2-1/4" (3 holes) for 1 x 3-1/8 Heavy Mullion <b>80007</b> x 1-3/4" (3 holes)</p>	<p>2 x 4 x 1/8 Angle L-Clip x 20' <b>11-63-395</b> Mill Finish Mates with 2 x 4 Mullion FABBED: for 22.5°, 30°, 45° and 90° Bay/Bow Mullions <b>80006</b> x 2-3/4" (4 holes) for 1 x 4 Mullion; 2 x 4 Mullion <b>80004</b> x 3-3/8" (4 holes) for 2 x 6 Mullion <b>80005</b> x 5-3/8" (4 holes)</p>	<p>2 x 5 x 1/8 Angle L-Clip x 20' <b>11-63-405</b> Mill Finish FABBED: for 1 x 3-1/8 Light Mullion <b>80002</b> x 2-1/4" (3 holes) for 1 x 3-1/8 Heavy Mullion <b>80003</b> x 1-3/4" (3 holes) for 1-1/4 x 3 Heavy Mullion <b>80011</b> x 7/8" (3 holes)</p>

WE HAVE THE MOST COMPREHENSIVE WINDOW MULLION INVENTORY AND ENGINEERING IN THE MARKET TODAY!



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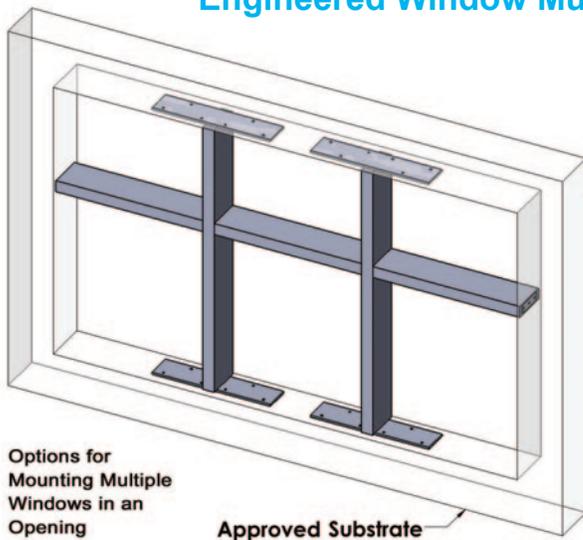
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# Engineered Window Mullion and Clip Extrusions



## Engineered Window Mullion and Clip Extrusions for Multiple Unit Openings



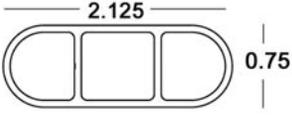
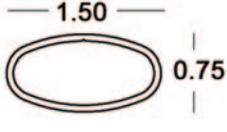
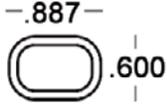
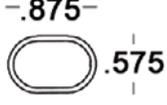
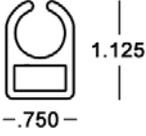
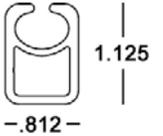
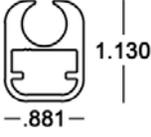
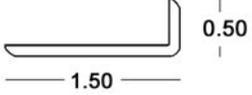
- Our mullions can be used with any Approved Fenestration Product, under separate approval.
- Florida Building Code Approved by Engineering:  
Tube Mulls: FL17472.2 . Bay/Bow Mulls: FL17472.1
- Now offering 22.5°, 30°, 45° and 90° Mullion Bars
- Our tube mullions can be used vertically, horizontally or any combination of the two and our Bay/Bow Mullions are designed for vertical applications in 22.5°, 30°, 45° and 90° configurations
- All of our mullions can be used in twin configurations or in multiples, up to 108". We can cut them to any size you need. In addition, we have the largest supply of painted rectangular tubing in stock for custom applications (may be covered by FBC or Miami Dade approvals by others or can be used with site specific engineering).

## Non-Engineered Window Mullion and Clip Extrusions

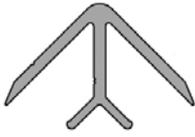
<p><b>1" Clip x 12'</b> <b>52-63-8745</b> Inserts into 20-WH/MB-2320 and 20-WH/MB-2350</p>	<p><b>2" Clip x 12'</b> <b>52-63-8746</b> Inserts into 2" Rect Tube (.125 Wall)</p>	<p><b>2" Clip x 12'</b> <b>52-63-11885</b> Inserts into a 2" Rect Tube (.250 wall)</p>	<p><b>1" Inside U-Clip x 12'</b> <b>52-63-11886</b> Inserts into 1" Rect Tube (.125 Wall)</p> <p><b>2" Inside U-Clip x 12'</b> <b>52-63-11887</b> Inserts into 2" Rect Tube (.125 Wall)</p>	<p><b>1 x 2-3/4 Mullion Bars x 24'</b> Wall: .375/.125 <a href="#">20-MB-2320</a> <a href="#">20-WH-2320</a> Bronze White</p> <p><b>1 x 4 Mullion Bars x 24'</b> Wall: .375/.125 <a href="#">20-MB-2350</a> <a href="#">20-WH-2350</a> Bronze White</p> <p>Additional Painted Bars on Standards p38</p>
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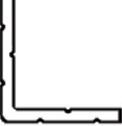
# Furniture - Multiple Shapes & Sizes Available

<p><b>1/2 x 1-3/4 Triple Mandrel Arm/Frame x 20'</b> 51-00-093 6060 T52 M/F</p> 	<p><b>1-1/2 x 3/4 Furniture Arm/Frame x 24'</b> 52-63-5377 6060 T52 M/F</p> 	<p><b>2-1/8 x 3/4 Large Triple Hollow Arm/Frame x 24'</b> 52-63-12027 6063 T52 M/F</p> 	<p><b>1-1/2 x 3/4 Oval Tube x 20'</b> 52-63-13009 6060 T6 M/F</p> 												
<p><b>.600 x .887 Oval Tube x 20'</b> 52-63-3709 6063 T6 M/F</p> 	<p><b>.575 x .875 Oval Tube x 20'</b> 52-63-2659 6063 T52 M/F</p> 	<p><b>1.125 x .75 Sling Channel x 20'</b> 52-63-3711 6063 T52 M/F</p> 	<p><b>1.125 x .812 Sling Channel x 20'</b> 52-63-4955 6063 T6 M/F</p> 												
<p><b>1.130 x .881 Heavy Sling "B" Channel x 20'</b> 52-63-13025 6063 T52 M/F</p> 	<p><b>1/2 x 1-1/2 x .093 Table Rim Angle x 20' (Radius Corner)</b> 11-63-351A 6063 T5 M/F</p> 	<p><b>Furniture Grade Round Aluminum Tube</b></p> <table border="0"> <tr> <td><b>Stock Code</b></td> <td><b>Size in Inches (Size x Wall)</b></td> </tr> <tr> <td>17-63-100</td> <td>.750 x .065 x 24' (.620 ID) 6063 T52</td> </tr> <tr> <td>17-63-110</td> <td>.875 x .062 x 24' (.751 ID) 6060 T6</td> </tr> <tr> <td>17-63-105</td> <td>1 x .062 x 20' (.880 ID) 6060 T6</td> </tr> <tr> <td>17-63-115FG</td> <td>1 x .062 x 24' (.880 ID) 6060 T6</td> </tr> <tr> <td>52-63-1272</td> <td>1.250 x .062 x 24' (1.126 ID) 6060 T52</td> </tr> </table> <p><b>Serrated Tube</b> Various Sizes &amp; Styles Available See STANDARDS 20</p> 		<b>Stock Code</b>	<b>Size in Inches (Size x Wall)</b>	17-63-100	.750 x .065 x 24' (.620 ID) 6063 T52	17-63-110	.875 x .062 x 24' (.751 ID) 6060 T6	17-63-105	1 x .062 x 20' (.880 ID) 6060 T6	17-63-115FG	1 x .062 x 24' (.880 ID) 6060 T6	52-63-1272	1.250 x .062 x 24' (1.126 ID) 6060 T52
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17-63-115FG	1 x .062 x 24' (.880 ID) 6060 T6														
52-63-1272	1.250 x .062 x 24' (1.126 ID) 6060 T52														

## Case Shapes

<p><b>1/4" Lg Corner</b> MILL ORDER 52-63-13749</p> 	<p><b>1/2" Large Corner</b> MILL ORDER 52-63-4531 <i>available with corner stops</i></p> 	<p><b>1/4" Tongue &amp; Groove Valance Self Mating</b> MILL ORDER 13780-10 (NC)</p> 	<p><b>1/2" Tongue &amp; Groove Valance Self Mating</b> MILL ORDER 52-63-6599</p> 
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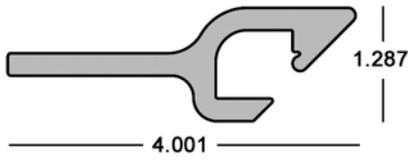
## Electrical - Multiple Shapes & Sizes Available

<p><b>Integral Web Channel Bus</b> MILL ORDER</p> 	<p><b>Universal Angle Bus Conductor</b> MILL ORDER</p> 		
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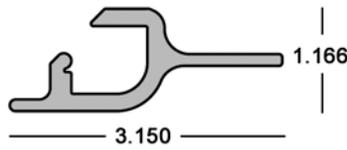


# Oil Containment Boom Connectors

**Bulk Universal Slide Connector x 24' 3"**  
 52-61-3902 6061-T6



**Mini Universal Slide Connector**  
 Mill Order 52-61-3715

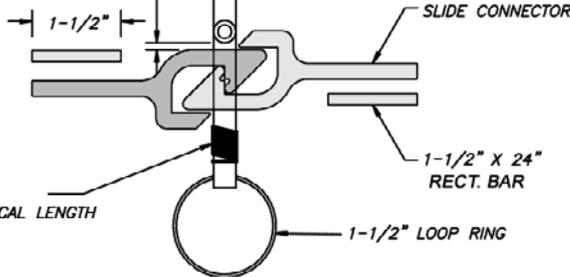


**6061-T6 Rect. Aluminum Bar x 12'**  
 Fabrication options are available

Code	Size (E x M)	Wt/ft.
10-61-275	3/16 x 1-1/2	0.338
10-61-285	3/16 x 2	0.451
10-61-335	1/4 x 1-1/2	0.450
10-61-340	1/4 x 2	0.600



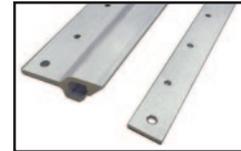
1/8" MIN. CLEARANCE AT FULL SPRING COMPRESSION



## Assembly Drawing

**Pre-Fabricated Bulk Universal Slide Connector x 24"** 6061-T6 MF  
 MILL ORDER 25-61-500F (TX)

**Pre-Fabricated 3/16" x 1-1/2" Flat Bar x 24"** 6061-T6 MF  
 MILL ORDER 25-61-501F (TX)

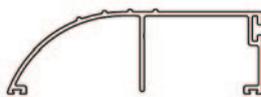


## Thresholds

**3.125 x 0.625 Standard Threshold**  
 MILL ORDER  
 EMS40501



**3.125 x 1.00 Standard Threshold**  
 MILL ORDER  
 EMS40500



## Building

**1/2" Corner Molding x 12'**  
 52-63-13545



## Grooved End Pipe

**Grooved End Pipe**  
 Mill Order  
 2" SCH 40 - 10" SCH 40  
 Available; Accepts  
 Victaulic® Couplings  
 www.victaulic.com



# Fabricated Products: Sunshades & Decorative Shutters



## Pre-Fabricated Sunshades

*Please see Architectural Systems pages 1-4*

- Available in a variety of styles and sizes
- Pre-Fabricated components shipped ready to assemble

### **Options include:**

- Airfoil Blades variety: choose from 2" to 12" (Arch 01)
- Additional Blades to choose from:  
Z Louver Blades, Rectangular Tube and Round Tube (Arch 04)
- Bullnoses: Half round, Full round or Rect. Tube (Arch 02)
- Outriggers: Rect. Bar, Rect. Tube or Plate with holes to accept or attach blades (Arch 03)
- Mullions: Pre-Fabricated with pass through holes (Arch 03)



## Pre-Fabricated Bahamas & Colonials Shutters

*Please see Hurricane & Security Systems pages 44-53*

Available in a variety of styles, colors and sizes

### **Options include:**

- HVT™ Low Profile (pp 48-52) • Board & Batten (p 44)
- 3 Wave Blade (p 53) • Raised Panel (assembled only; p 56)

### **Sold Four Ways:**

- Mill Finish lineals (customer fabricates & paints)
- Pre-Fabricated Mill Finish lineals (customer cuts, assembles & paints)
- Mill Finish Assembled Shutter (customer paints & installs)
- Painted Assembled Shutter (customer installs)



# Machining & Fabrication Capabilities



Integrated with our large inventory of high quality extrusions, we offer our customers numerous machining and fabrication services. We can work with your engineers and designers to help reduce your start-up time by using our Solid Works (CAD) software and 3D printing capabilities. Whatever your business, EMS can help augment your capabilities.

## Capabilities:

- CNC Turning & Milling
- 5-Axis CNC Machining
- Precision cutting (12" - 36')
- Punching
- Shearing
- Polishing
- Drilling
- Tapping
- Welding (TIG/MIG)
- Roll Forming
- Beveling/Chamfering
- Bending
- Sanding
- Deburring
- Swedging
- Assembly
- Anodizing
- Powder Coat Paint
- Design Assistance
- CAD
- 3D Printing

Engineering, Fabrication, and Kitting services available upon request

The industries we currently service are: lighting, patio/restaurant furniture, architectural sunshades, marine, sporting equipment, railing, hurricane/decorative shutter, sound equipment, electronics and more!

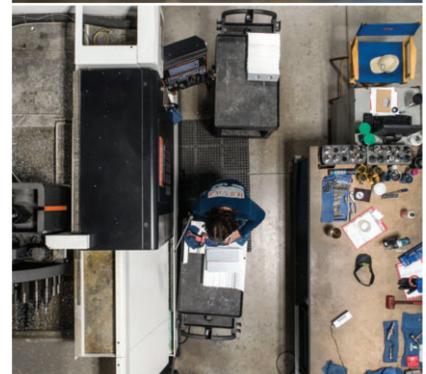
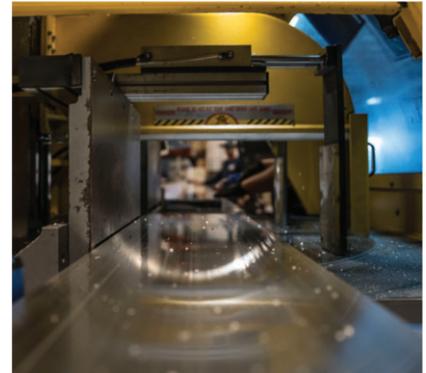
## Rod and Bar - Standard & Specialty

EMS has the highest quality machine grade extrusions available in the market today, with a special 6061 alloy chemistry for improved machining.

These extrusions include:

- Rod up to 12.125" diameter
- Square bar up to 9"
- Rectangular bar up to 19.6" width

Please contact your EMS Sales Representative for more information about our machining and fabrication capabilities!



EASTERN METAL SUPPLY

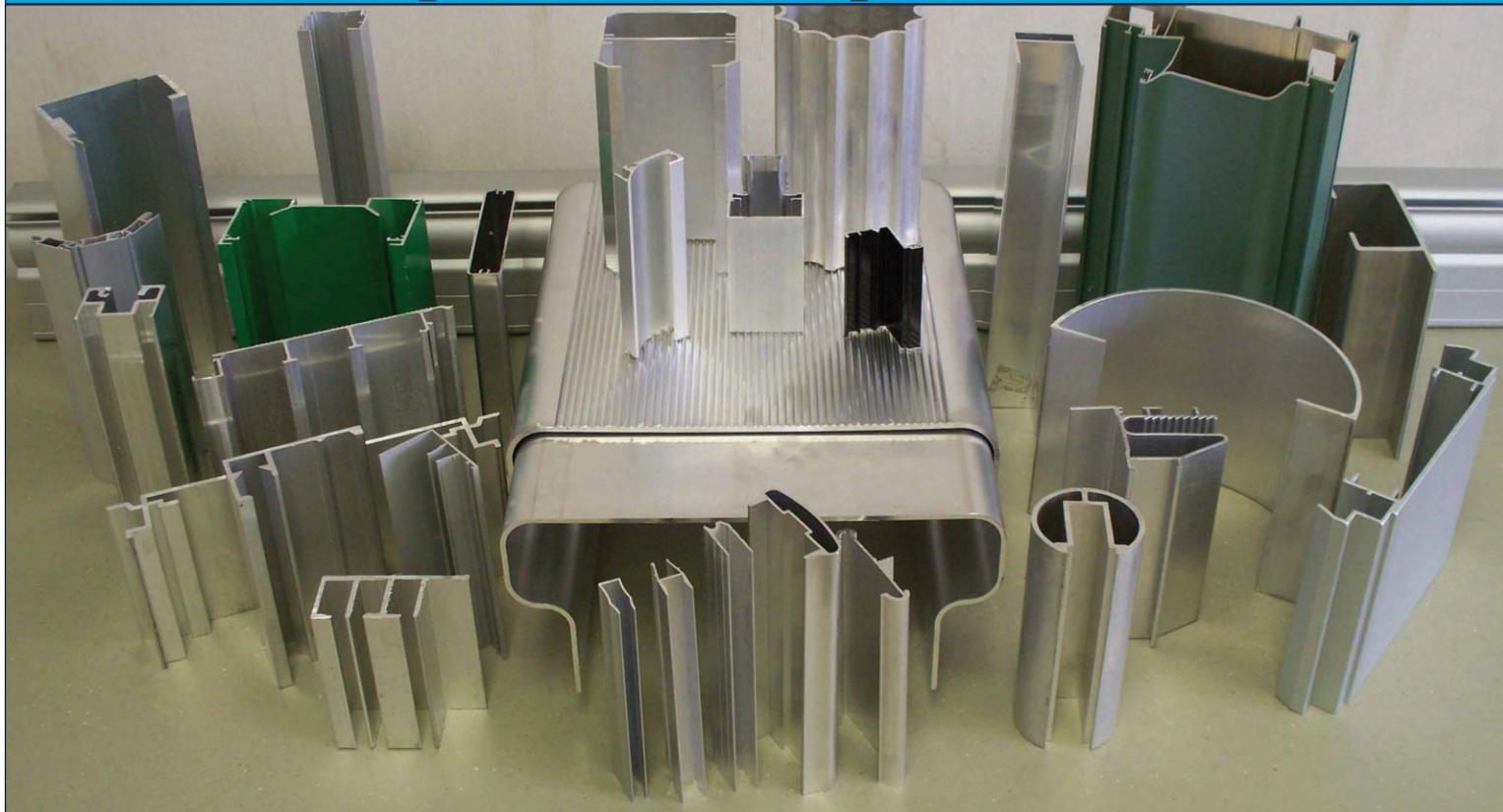
CUSTOM, FAB & MISC 06  
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# Custom Shapes to Your Specifications



## Custom Aluminum Extrusions

**Circle size: .250" - 24" • Lengths: up to 50' • Weight: up to 95 lbs/ft**  
**Mill Finish, Painted, Anodized & Mechanically Enhanced**

Eastern Metal Supply holds the country's largest private inventories for stocking customer's proprietary profiles to assist with JIT production needs.

Often these profiles are fabricated or machined by EMS to enable them to immediately go to the end use product assembly.

We can offer design tips that improve mill productivity and in turn reduce your overall costs due to improved tooling life and production rates.

Eastern Metal Supply leverages buying power combined with stocking programs to offer more value than buying direct. Mill minimums shipped to you over time improve cash flow and inventory turns.



## Standard Aluminum Extrusions and Sheet:

Structural & Architectural in stock • Bar & Rod • Angle • Channel Square, Rectangular & Round Tube  
Serrated & Fluted Tube • Pipe • I-Beams • Zees & Tees • Painted & Anodized Extrusions  
Sheet & Plate • Aluminum Composite Material • Alodine Sheet



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