ARE YOU STILL “STICK” BUILDING SIGN CABINETS?

WANT DOUBLE DIGIT COST SAVINGS IN LABOR, FABRICATION AND ELECTRICAL COSTS?

NEED A COMPETITIVE ADVANTAGE?

IF SO, PLEASE CONSIDER THE PATENTED SIGNgineer® SIGN FRAME FROM Eastern Metal Supply

Two Versions:

SIGNgineer® Senior Sign Frame
- Heavier Shapes for Superior Strength
- For Larger Sign Cabinets
- Flex Applications Possible

SIGNgineer® Junior Sign Frame
- Up to 100 Sq Ft Cabinet Size
- Lighter Shape yields 33% material cost savings for smaller signs
- Non Flex Applications

Featured Benefits:

Build Any Width Custom Cabinet:
- Merely adjust the length of your Square Tube and your Sheared Sheet to quickly make a cabinet as wide as you need.

Strength:
- Sign Frames offered in a superior strength alloy providing up to 40% greater yield strength

Aesthetics:
- No visible welds - patented design allows welds to be hidden.

Simplicity:
- Vast majority of cabinets can be made with 2 cost effective SIGNgineer® Extrusions and 4 commercially available standard items from EMS (see picture at left - sheet, angle, square tube)

Easier Fabrication:
- Relatively small, high-strength profiles can be cut without the need of larger radial arm saws.
- Designed to use flat sheet for raceways, no sheet bending!

Additional literature available showing more applications and benefits!

See our SIGNgineer Instructional video here:
Exploded View of Double Face Sign Cabinet

SIGNgineer® Junior System Shown
Senior System works in an almost identical manner.

** Size of the Sheared Aluminum Sheet (**C** & **D**) and Square Tube (**E**) can be adjusted to increase cabinet widths to any size required.

Patent #7,861,446
Wireway compliant with UL Standards when fabricated per guidelines.

** PARTS LIST **

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Drawing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24-63-610 Junior with Retainer</td>
<td><img src="image1" alt="Image" /></td>
</tr>
<tr>
<td>2</td>
<td>24-63-615 Junior without Retainer</td>
<td><img src="image2" alt="Image" /></td>
</tr>
<tr>
<td>3</td>
<td>24-63-600 Senior with Retainer</td>
<td><img src="image3" alt="Image" /></td>
</tr>
<tr>
<td>4</td>
<td>24-63-605 Senior without Retainer</td>
<td><img src="image4" alt="Image" /></td>
</tr>
<tr>
<td>A</td>
<td>Aluminum Angle Retainer: Junior: 2 x 2 x .063 - 11-63-310&lt;br&gt;Senior: 2 x 2 x .125 - 11-63-315</td>
<td><img src="image5" alt="Image" /></td>
</tr>
<tr>
<td>B</td>
<td>Plastic Sign Face (shown as pan formed)</td>
<td><img src="image6" alt="Image" /></td>
</tr>
<tr>
<td>C</td>
<td>Aluminum Sheet for Sign Body**:&lt;br&gt;Junior: .060 Max Thickness - various sizes &amp; alloys available&lt;br&gt;Senior: .090 Max Thickness - various sizes &amp; alloys available</td>
<td><img src="image7" alt="Image" /></td>
</tr>
<tr>
<td>D</td>
<td>Aluminum Sheet for Raceway:&lt;br&gt;.090 Max Thickness - various finishes, sizes &amp; alloys available</td>
<td><img src="image8" alt="Image" /></td>
</tr>
<tr>
<td>E</td>
<td>Aluminum Square Tube for Bracing:&lt;br&gt;1&quot; Square Tube x .125 Wall - 19-63-140</td>
<td><img src="image9" alt="Image" /></td>
</tr>
<tr>
<td>F</td>
<td>Counter Sunk Sheet Metal Screw *(fastens face retainer)</td>
<td><img src="image10" alt="Image" /></td>
</tr>
<tr>
<td>G</td>
<td>Hangbar/Reader Board Track *(bonded to plastic face)</td>
<td><img src="image11" alt="Image" /></td>
</tr>
<tr>
<td>H</td>
<td>Snap-in Fluorescent Lamp Sockets *(required for lamp spacing)</td>
<td><img src="image12" alt="Image" /></td>
</tr>
<tr>
<td>I</td>
<td>High-Output Fluorescent Lamp *(required for lamp spacing)</td>
<td><img src="image13" alt="Image" /></td>
</tr>
<tr>
<td>J</td>
<td>Hex Head Tek Screw *(fastens lamp socket wire cover)</td>
<td><img src="image14" alt="Image" /></td>
</tr>
<tr>
<td>K</td>
<td>.125&quot; spacer with VHB tape *(required for lamp spacing)</td>
<td><img src="image15" alt="Image" /></td>
</tr>
</tbody>
</table>

* Not Supplied by Eastern Metal Supply

** Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE and Birmingham, AL

** Website:** www.easternmetal.com  ** E-mail:** info@easternmetal.com

SIGNgineer 04/19/12
## Product Cut Chart

for Standard Aluminum Items to Complement the Use of Either SIGNgineer Junior or Senior Frame:

<table>
<thead>
<tr>
<th>SIGNgineer Component:</th>
<th>EMS Product:</th>
<th>Explanation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exterior Sign Body</td>
<td>Mill Finish Aluminum Sheet</td>
<td>cut 4-5/8” less than desired width of sign body</td>
</tr>
<tr>
<td></td>
<td>Various sizes &amp; alloys available</td>
<td></td>
</tr>
<tr>
<td>Tubular Bracing</td>
<td>1” Square Aluminum Tube</td>
<td>cut 3 ¼” less than desired width of sign body</td>
</tr>
<tr>
<td></td>
<td>19-63-140 (.125 wall)</td>
<td></td>
</tr>
<tr>
<td>Electrical Raceway</td>
<td>White Painted Aluminum Sheet</td>
<td>cut 1 ½” less than desired width of sign body</td>
</tr>
<tr>
<td></td>
<td>Various finishes, sizes &amp; alloys available</td>
<td></td>
</tr>
<tr>
<td>Sign Retainer</td>
<td>2” x 2” Architectural Angle</td>
<td>cut to your custom length and height of sign cabinet desired</td>
</tr>
<tr>
<td></td>
<td>Junior: 11-63-310 (.063 wall)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Senior: 11-63-315 (.125 wall)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior with Retainer</th>
<th>Senior without Retainer</th>
<th>Junior with Retainer</th>
<th>Junior without Retainer</th>
</tr>
</thead>
<tbody>
<tr>
<td>24-63-600</td>
<td>24-63-605</td>
<td>24-63-610</td>
<td>24-63-615</td>
</tr>
</tbody>
</table>

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**EMS Eastern Metal Supply**

Quality Shapes In Aluminum

**EMS FL**
1-800-432-2204
(561) 588-4780 - fax

**EMS NC**
1-800-343-8154
(704) 391-2267 - fax

**EMS TX**
1-800-996-6061
(281) 658-2297 - fax

**EMS MO**
1-888-822-6061
(314) 344-3349 - fax

**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE and Birmingham, AL

**website:** www.easternmetal.com
e-mail: info@easternmetal.com

SIGNgineer_comp 04/24/12
## SIGNgineer SENIOR

### with Retainer x 24’ 6”
24-63-600

For sign cabinets **OVER** 100 sq ft and Flex Face applications

- **Retainer Angle**: 3.125
- **Senior without Retainer**: 2.688

Accepts up to .090 Sheet for Sign Body & Raceway

### without Retainer x 24’ 6”
24-63-605

For sign cabinets **OVER** 100 sq ft and Flex Face applications

- **Retainer Angle**: 3.000
- **Senior without Retainer**: 2.000

Accepts up to .060 Sheet for Sign Body & 0.090 for Raceway

### JUNIOR

### with Retainer x 24’ 6”
24-63-610

For sign cabinets **UNDER** 100 sq ft

- **Retainer Angle**: 2.625
- **Senior without Retainer**: 2.000

Accepts up to .060 Sheet for Sign Body & .090 for Raceway

### JUNIOR

### without Retainer x 24’ 6”
24-63-615

For sign cabinets **UNDER** 100 sq ft

- **Retainer Angle**: 2.000
- **Senior without Retainer**: 2.000

Accepts up to .060 Sheet for Sign Body & .090 for Raceway

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**SIGNgineer SENIOR**

- **Retainer Angle**: 3.125
- **Senior without Retainer**: 2.688

Accepts up to .090 Sheet for Sign Body & Raceway

**SIGNgineer JUNIOR**

- **Retainer Angle**: 3.000
- **Senior without Retainer**: 2.000

Accepts up to .060 Sheet for Sign Body & 0.090 for Raceway

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**See our SIGNgineer Instructional video here:**


**SIGNgineer Flex Retainer x 24’ 6”**

24-63-620

- **Retainer Angle**: 2.750
- **Senior without Retainer**: 4.000

Should be used in Senior Applications only

**Flex Face Wedge Clamps**

- SPECIAL ORDER 24-63-397 (MO) 1.5” Bolt
- SPECIAL ORDER 24-63-398 (MO) 2.5” Bolt for Flex Face Applications

100 pcs/bag

Mates with Tensioner Bar: 24-63-391

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**No visible welds: watch our video!**

**Signage 04**

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**Additional Locations:** West Palm Beach & Lakeland, FL; Newark, DE and Birmingham, AL

- [website](http://www.EasternMetal.com)
- **e-mail:** info@EasternMetal.com

**version:** 04/27/15