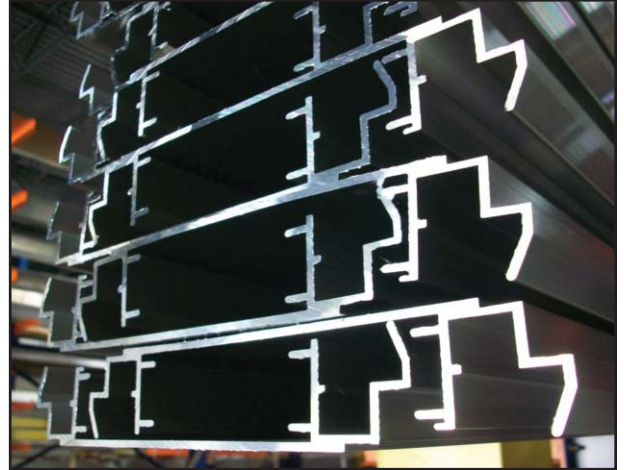


# Signage

EMS has an extensive stock of sign frames, raceways & raceway lids, retainers, flex face signage, double tees, half-round posts, and a full line of aluminum standards including **Square Tube** (Standards p15), **Angle** (Standards 09) a wide selection of **Sheet & Plate Products** (Standards 05-08).

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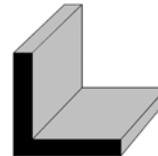


## Sign Frames & Accessories

<p><b>12" Fixed Retainer Sign Frame x 24' 6"</b>  <b>SF-12R 24-63-230</b></p> <p>Corner Key: 1/8" Angles          See Schematics: Signage p 04</p>	<p><b>12" Sign Frame x 24' 6" w/o Retainer</b>  <b>SF-12 24-63-235</b></p> <p>Corner Key: 1/8" Angles      Retainer: 24-63-236          See Schematics: Signage p 04</p>
<p><b>10" Fixed Retainer Sign Frame x 24' 6"</b>  <b>SF-10R 24-63-220</b></p> <p>Corner Key: 1/8" Angles          See Schematics: Signage p 04</p>	<p><b>10" Sign Frame x 24' 6" w/o Retainer</b>  <b>SF-10 24-63-225</b></p> <p>Corner Key: 1/8" Angles      Retainer: 24-63-236          See Schematics: Signage p 04</p>

### Sign Frame Retainer Angles

- 24-63-236**    1-1/2 x 1-1/2 x 1/8 x 24' 6"  
 mates with SF-10, SF-12; 6" & 9" Single Face
- 24-63-216**    1-1/2 x 1-1/2 x 1/16 x 24' 6"  
 mates with SF-7
- 24-63-206**    1 x 1 x 1/16 x 24' 6"  
 mates with SF-4, 6" SF



### Signage 01



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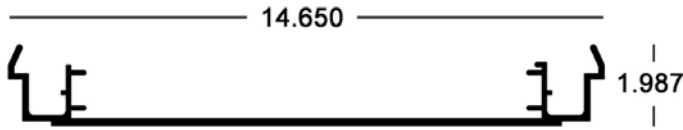
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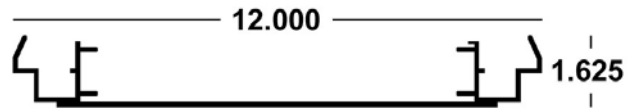
version: 05/24/17

**16" Sign Frame x 24' 6" w/o Retainer**  
SF-14 24-63-290



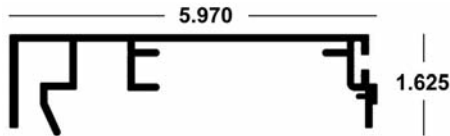
Corner Key: 1/8" Angles Retainer: 40-63-128

**13" Sign Frame x 24' 6" w/o Retainer**  
MILL ORDER 1004-023 (TX)



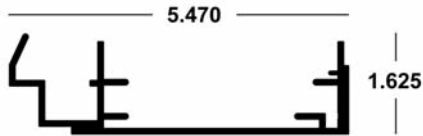
Corner Key: 3/16" Angles Retainer: 24-63-236

**6" Tab Mounted Sign Frame x 24' 6"**  
24-63-700 (TX) Mates with 24-63-148P  
Used as Top and Bottom of Cabinet; Schematic at Right



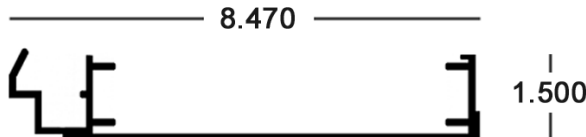
Corner Key: 1/8" Angles Retainer: 24-63-236

**6" Single Face Sign Frame x 24' 6"**  
24-63-705 (TX) Can be used as Single Face or as  
Sides of Tab Mounted Cabinet (with 24-63-700); Schematic at Right



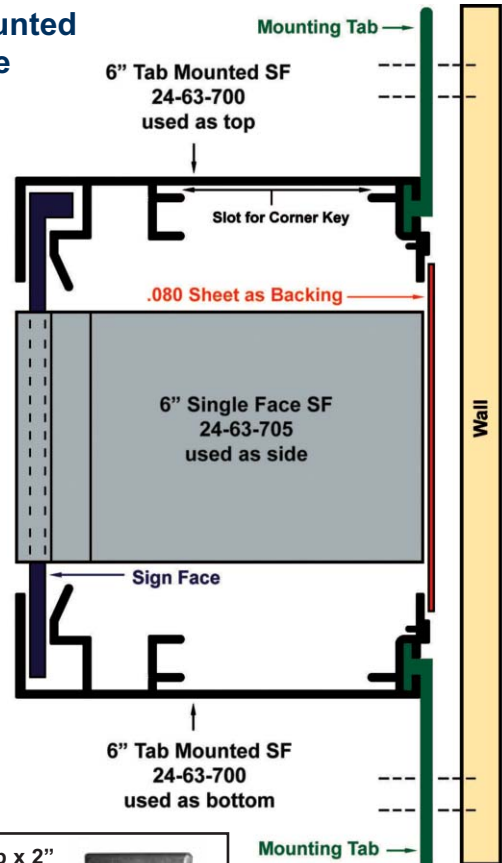
Corner Key: 1/8" Angles Retainer: 24-63-236

**9" Single Face Sign Frame x 24' 6"**  
24-63-280

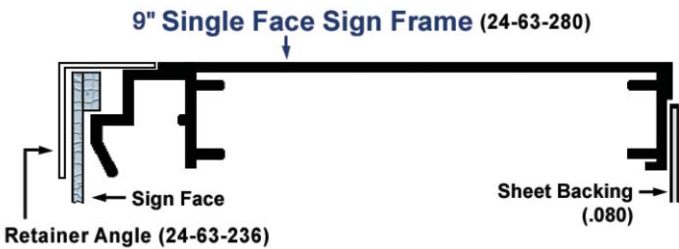


Corner Key: 1/8" Angles Retainer: 24-63-236  
See Schematic below...

**6" Tab Mounted Sign Frame Schematic**



**Mounting Tab x 2"**  
24-63-148P  
50 pcs/box  
1/2" hole in center  
Max Load Per Tab:  
Vertical: 220 #  
Horizontal: 160 #



Signage 02



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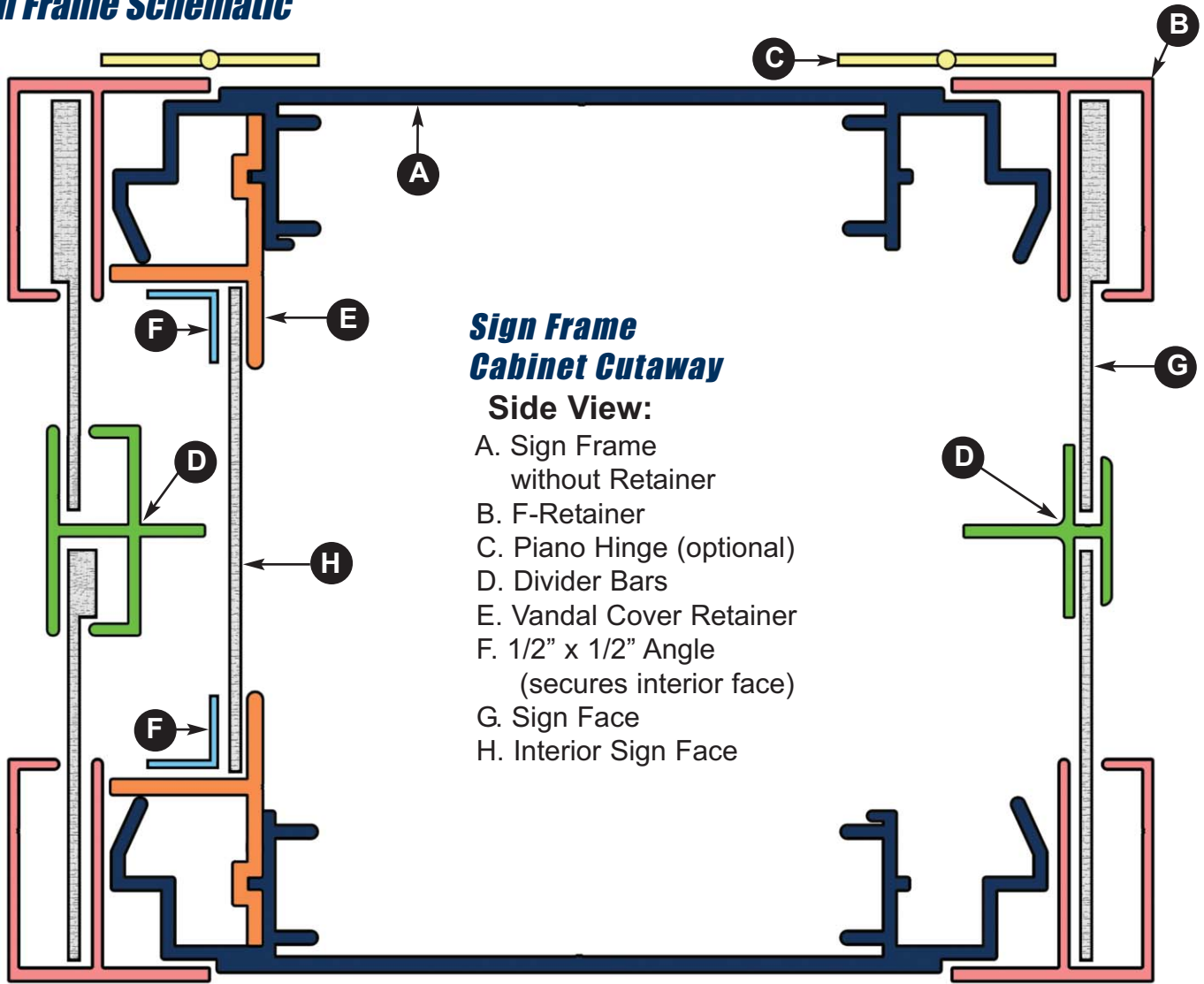
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# Sign Frame Schematic



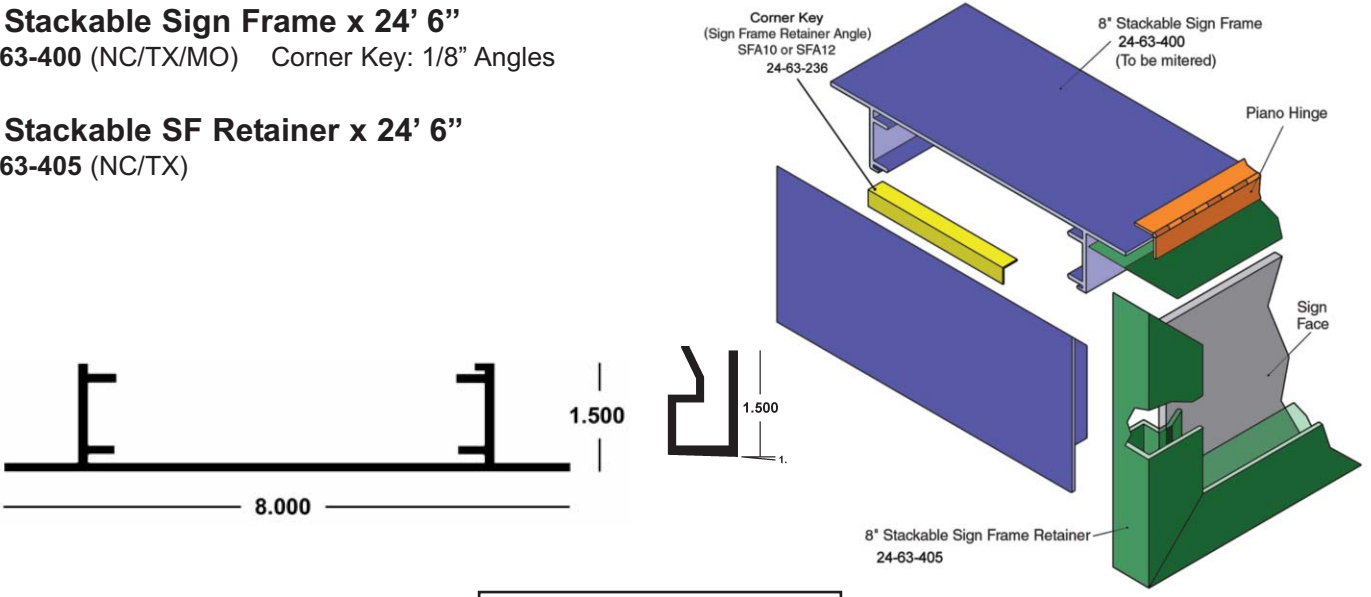
## Sign Frame Cabinet Cutaway

### Side View:

- A. Sign Frame without Retainer
- B. F-Retainer
- C. Piano Hinge (optional)
- D. Divider Bars
- E. Vandal Cover Retainer
- F. 1/2" x 1/2" Angle (secures interior face)
- G. Sign Face
- H. Interior Sign Face

**8" Stackable Sign Frame x 24' 6"**  
 24-63-400 (NC/TX/MO) Corner Key: 1/8" Angles

**8" Stackable SF Retainer x 24' 6"**  
 24-63-405 (NC/TX)



Signage 03



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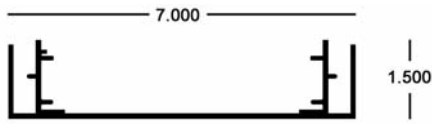
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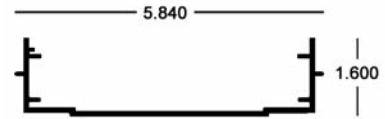
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**7" Fixed Retainer Sign Frame x 24' 6"**  
SF-7R 24-63-210



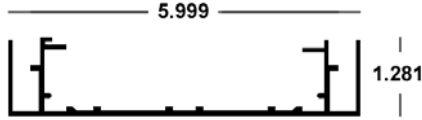
Corner Key: 1/8" Angles

**7" Sign Frame x 24' 6" w/o Retainer**  
SF-7 24-63-215



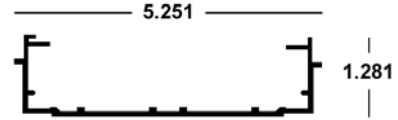
Corner Key: 1/8" Angles Retainer: 24-63-216

**6" Fixed Retainer Sign Frame**  
24-63-260 (MO)



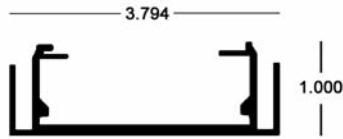
Corner Key: 3/16" Angles

**6" Sign Frame w/o Retainer**  
24-63-255 (FL/MO)



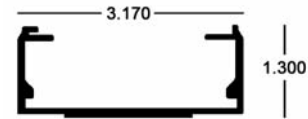
Corner Key: 3/16" Angles Retainer: 24-63-206

**4" Fixed Retainer Sign Frame x 24' 6"**  
SF-4R 24-63-200



Corner Key: 1/8" Angles

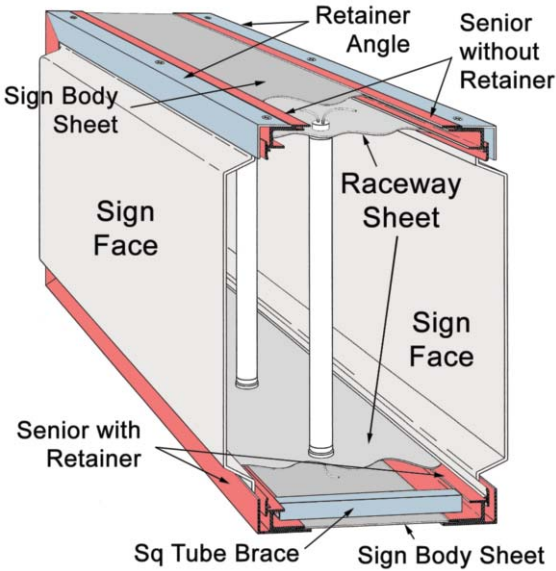
**4" Sign Frame x 24' 6" w/o Retainer**  
SF-4 24-63-205



Corner Key: 1/8" Angles Retainer: 24-63-206

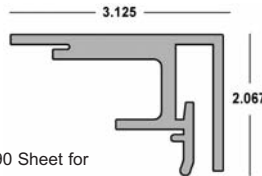
**SIGNgineer sign frame**

*The Flexibility to Build Any Width Sign Cabinet Fast!*



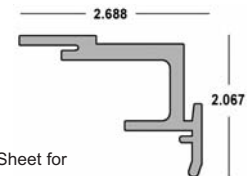
No visible welds: watch our video!  
**See our SIGNgineer Instructional video here:**  
[www.easternmetal.com/signage\\_extrusions-singineer.html](http://www.easternmetal.com/signage_extrusions-singineer.html)

**SIGNgineer SENIOR w/Retainer x 24' 6"**  
24-63-600 For sign cabinets OVER 100 sq. ft. and Flex Face applications



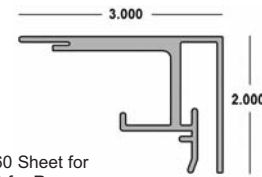
Accepts up to .090 Sheet for Sign Body & Raceway

**SIGNgineer SENIOR NO Retainer x 24' 6"**  
24-63-605 For sign cabinets OVER 100 sq ft and Flex Face applications; Accepts 1/8" angle as Retainer: 1-63-315



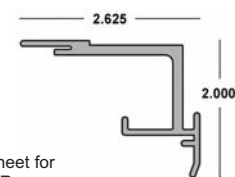
Accepts up to .090 Sheet for Sign Body & Raceway

**SIGNgineer JUNIOR w/Retainer x 24' 6"**  
24-63-610 For sign cabinets UNDER 100 sq. ft.



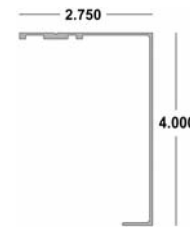
Accepts up to .060 Sheet for Sign Body & .090 for Raceway

**SIGNgineer JUNIOR NO Retainer x 24' 6"**  
24-63-615 For sign cabinets UNDER 100 sq. ft. Accepts 1/16" angle as Retainer: 11-63-310



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

**SIGNgineer Flex Retainer x 24' 6"**  
24-63-620 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

Signage 04



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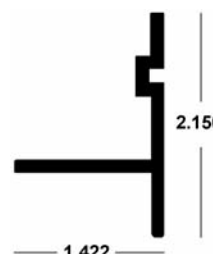
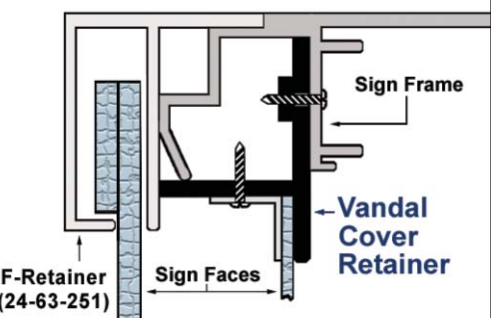
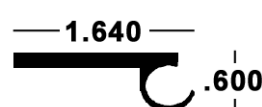

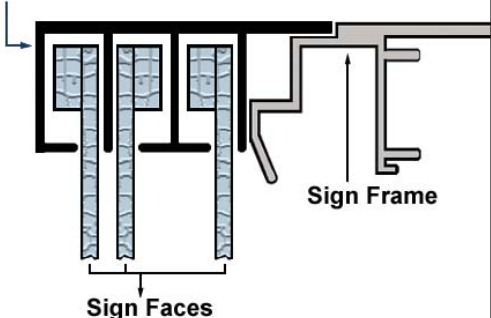
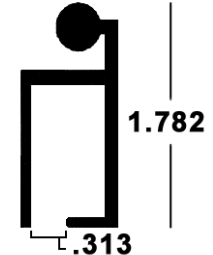
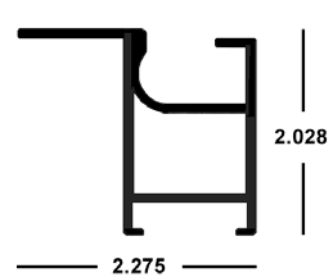
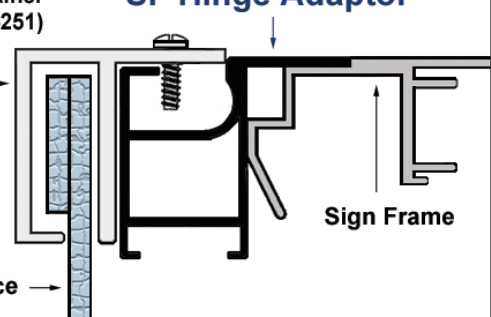
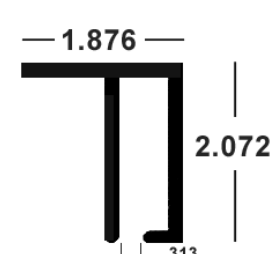
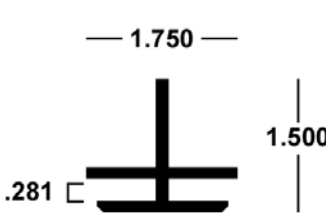
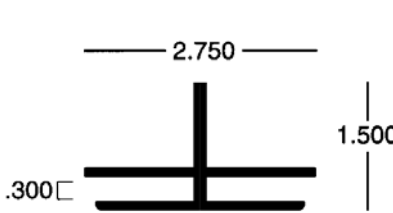
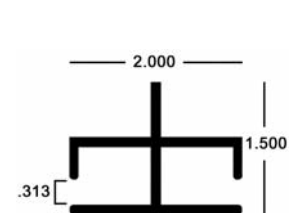
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# Sign Frames & Accessories

<p><b>Vandal Cover Retainer x 24' 6"</b> 24-63-270 (NC/TX) Used with 10" &amp; 12" Sign Frames</p> 		<p><b>Female Hinge x 24' 6"</b> 24-63-241 mates with Male Hinge</p>  <p>See Schematic: Signage p 04 "B"</p>
<p><b>3 Face Retainer x 24' 6"</b> <u>MILL ORDER</u> 24-63-285 (NC)</p> 	<p><b>3 Face Retainer</b></p> 	<p><b>Male Hinge x 24' 6"</b> 24-63-246 mates with Female Hinge</p>  <p>See Schematic: Signage p 04 "B"</p>
<p><b>Sign Frame Hinge Adaptor x 24' 6"</b> 24-63-335 (NC/TX/MO)</p> 	<p><b>SF Hinge Adaptor</b></p> 	<p><b>F-Retainer x 24' 6"</b> 24-63-251 used with Male &amp; Female Hinge</p>  <p>See Schematic: Signage p 04 "A"</p>
<p><b>1-1/2" Double Tee Divider Bar x 24'</b> SFT-1 24-63-120</p>  <p>See Schematic: Signage p 04 "C"</p>	<p><b>2-1/2" Double Tee Divider Bar x 24'</b> SFT-2 24-63-115</p>  <p>See Schematic: Signage p 04 "C"</p>	<p><b>1-1/2 x 2 Divider Bar x 24' 6"</b> 24-63-275 (NC/TX/MO/DE)</p>  <p>See Schematic: Signage p 04 "C"</p>

Signage 05



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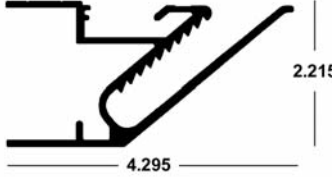


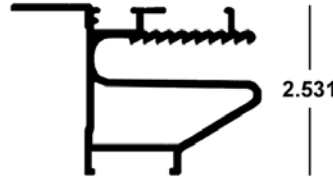
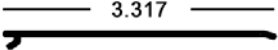
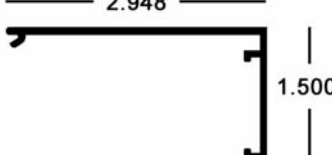
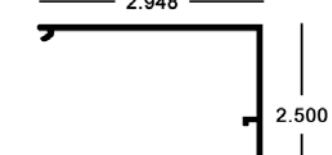
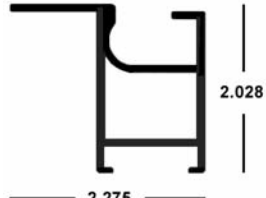







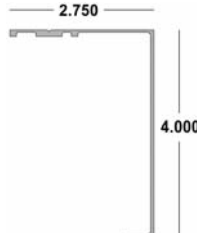

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version: 06/02/17

# Flex Face Signage

<p><b>Bleed Frame x 24' 6"</b> 24-63-300 (NC/TX) Mill Finish accepts 2" Square Tube</p>  <p>2.215 4.295</p> <p>UL Recognized Component System - The Underwriters Laboratory file number is: <b>E136850</b></p>	<p><b>Bleed Retro Frame x 24' 6"</b> 24-63-305 (NC/TX/MO) Mill Finish</p>  <p>2.360 4.334</p> <p>UL Recognized Component System - The Underwriters Laboratory file number is: <b>E136850</b></p>	<p><b>Flex Frame x 24' 6"</b> <b>MILL ORDER</b> 24-63-310 (MO) accepts 2" Sq Tube</p>  <p>2.215 3.622</p> <p>UL Recognized Component System - The Underwriters Laboratory file number is: <b>E136850</b></p>	<p><b>Flex Retro Frame x 24' 6"</b> 24-63-315 (NC/TX) Mill Finish</p>  <p>2.531 3.534</p> <p>UL Recognized Component System - The Underwriters Laboratory file number is: <b>E136850</b></p>
<p><b>Bleed Retainer x 24' 6"</b> 24-63-320 (NC/MO) Mill Finish</p>  <p>3.317</p>	<p><b>1-1/2" Flex Retainer x 24' 6"</b> 24-63-330 (NC/TX) Mill Finish</p>  <p>2.948 1.500</p>	<p><b>2-1/2" Flex Retainer x 24' 6"</b> 24-63-325 (NC/TX/MO) Mill Finish</p>  <p>2.948 2.500</p>	<p><b>Sign Frame Hinge Adaptor x 24' 6"</b> 24-63-335 (NC/TX/MO) Mill Finish</p>  <p>2.028 2.275</p>
<p><b>Tensioner Clamp x 2"</b> 24-63-390 (NC/TX/MO) Mill Finish Mates with Tensioner Bar See Schematics Sign p 7 100 pcs per box</p> 	<p><b>Tensioner Bar x 4"</b> 24-63-391 (NC/TX/MO) Mill Finish Mates with Tensioner Clamp; Mates with 3M Wedge Clamp; See Schematics Sign p 7 100 pcs per box</p> 	<p>Retainer Corner Key 24-63-395 (NC/TX/MO) Mill Finish</p> 	
<p><b>1/4" Frame Corner Key Angle x 1-1/16"</b> 24-63-393 (NC/TX) Mill Finish</p> 	<p><b>1/4" Divider Corner Key Angle x 1-1/16"</b> 24-63-394 (TX/MO) Mill Finish (with notches and hole)</p> 	<p><b>Frame Brace x 1-1/2"</b> 24-63-396 (NC/TX) Mill Finish</p> 	
<p><b>Tensioner Tool x 15.25"</b> 24-63-392 (NC/TX)</p> 	<p><b>SIGNgineer Flex Retainer x 24' 6"</b> 24-63-620</p> <p>Should be used in Senior Applications only</p>  <p>2.750 4.000</p>	<p><b>Flex Face Wedge Clamps</b> <b>SPECIAL ORDER</b> 24-63-397 (MO) 1.5" Bolt <b>SPECIAL ORDER</b> 24-63-398 (MO) 2.5" Bolt for Flex Face Applications Mates with Tensioner Bar: 24-63-391 100 pcs/bag</p> 	

Signage 06



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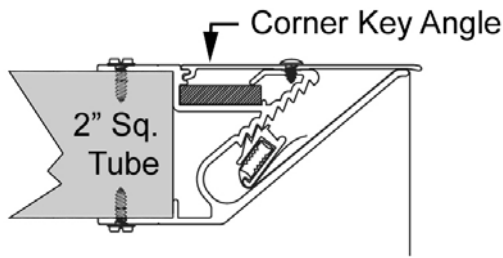
Additional Locations: West Palm Beach & Lakeland, FL; Newark, DE; Birmingham, AL and Akron, OH

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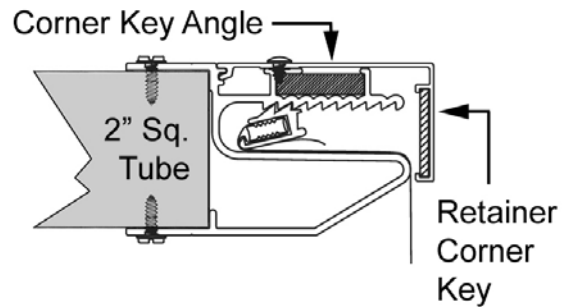
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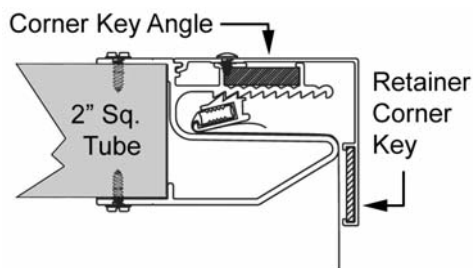
**Bleed Frame Assembly**



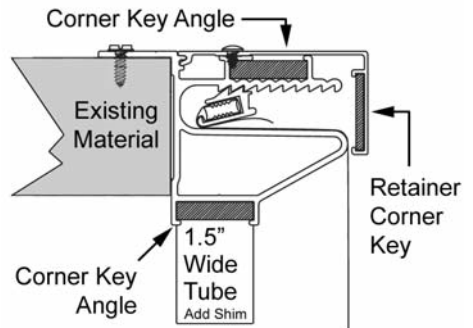
**Flex Frame Assembly with 1-1/2" Flex Retainer**



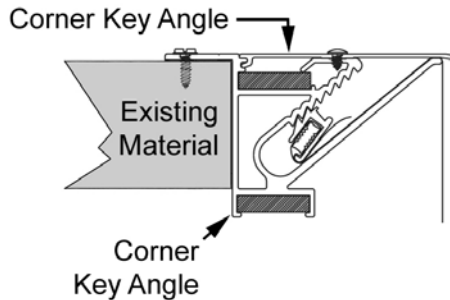
**Flex Frame Assembly with 2-1/2" Flex Retainer**



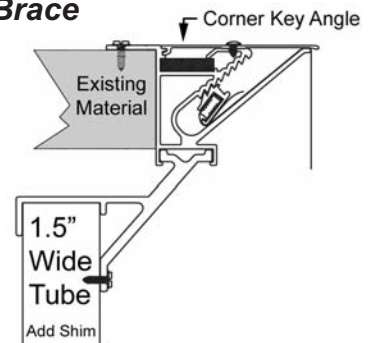
**Flex Retro Frame Assembly with 1-1/2" Flex Retainer**



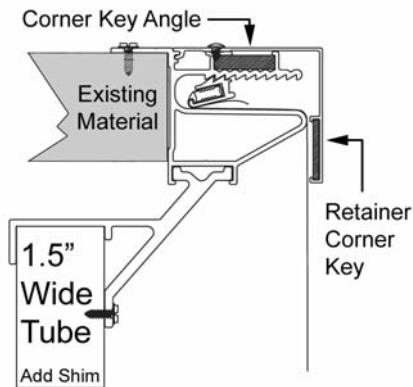
**Bleed Retro Frame Assembly**



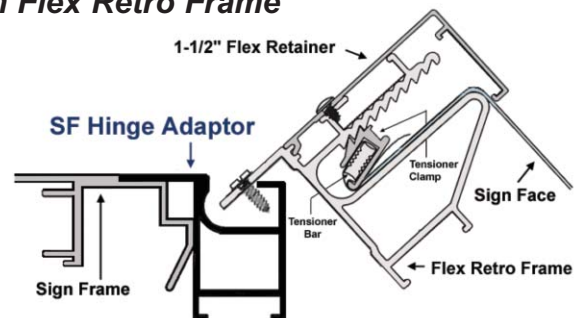
**Bleed Retro Frame Assembly with Frame Brace**



**Flex Frame Assembly with 1-1/2" Flex Retainer & Frame Brace**



**Hinge Adaptor Assembly with Flex Retro Frame**



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