

RotaryLok Bulletins

Superior Billboard face panels by design.



The Pin & Key System insures the tightest fit.



Assembly Instructions

Formetco Bulletin Sections & Hardware

- *Rotarylok True Width Bulletin Sections for 12', 24' 36' 48' and 20' faces without sliver sections. Special height and width sections available.*
- * *Dura-Paint Wood Bulletin Sections. 4' wide x 10' to 20' sections.*
- *HOP Bulletin Sections. 24" x 10' to 19' 6" sections*
- * *Clip-It Cut-Out System for securing extensions to structure and sections.*
- *Convertible Trim Kits. Convert 14' x 48' bulletins to 2 side-by-side poster panels or 14' x 48' vinyl face.*
- *FX Vinyl Brackets. Eliminate ratchets at the bottom of the sections. Also, top and side brackets.*
- *Rotary Vinyl Clips*

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Excellence is our standard.

Rotarylok Bulletin Sections

The Formetco Rotarylok Bulletin Sections are available in a "TRUE WIDTH", 28.8" wide section that will give you an exact 10' 6"x36', 12'x24', 14'x48' and a 20'x60' bulletin without a sliver sections.

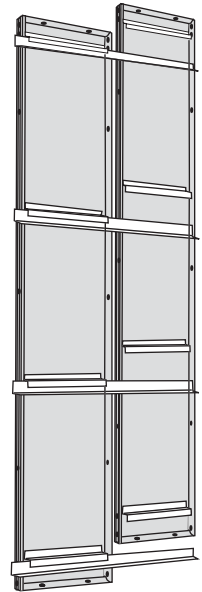
The top, bottom and sides of the Formetco Rotarylok Sections are rolled formed for extra strength and for easy cut-out attachment.

Formetco Rotarylok Sections can be fabricated in special widths and lengths to meet the special requirements of your clients.

Rotarylok Hangers, for hanging on angle iron stringers, are factory spot welded to your spacing specifications. Rotarylok Back Braces for use with "L" Bolts, Nuts and Keys, or Wood Clips and keys



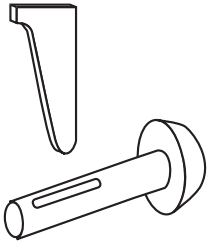
"True Width"
Rotarylok Sections



Rotarylok Sections
on
Angle Iron Stringers

Pin & Key

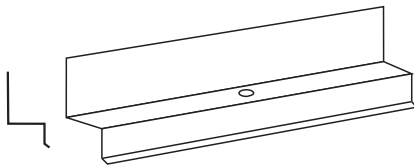
The Formetco Rotarylok Sections can be secured side-by-side with Pins & Keys to form a solid face and assure good alignment.



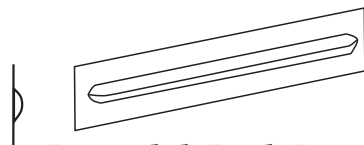
Pin & Key

Stop-Pop Primer/Block-Out

Stop-Pop is both a primer and block-out developed for the Outdoor Advertising Industry. Stop-Pop dries to a baked-on acrylic enamel like finish to resist the popping caused by rapid temperature changes. Stop-Pop covers approximately 135 sq ft per gallon. Mix 4 to 1 ratio, Stop-Pop to Zylene when rolling on sections.



Rotarylok Hanger



Rotarylok Back Brace

Rotarylok Chart

Number Sections	True Width
	28.8"
1	2' - 4 13/16"
2	4' - 9 19/32"
3	7' - 2 13/16"
4	9' - 7 3/16"
5	12' - 0"
6	14' - 4 13/16"
7	16' - 9 19/32"
8	19' - 2 13/32"
9	21' - 7 3/16"
10	24' - 0"
11	26' - 4 13/32"
12	28' - 9 19/32"
13	31' - 2 13/32"
14	33' - 7 3/16"
15	36' - 0"
16	38' - 4 13/16"
17	40' - 9 19/32"
18	43' - 2 13/32"
19	45' - 7 3/16"
20	48' - 0"
21	50' - 4 13/16"
22	52' - 9 19/32"
23	55' - 2 13/32"
24	57' - 7 3/16"
25	60' - 0"

Rotarylok Bulletin Sections

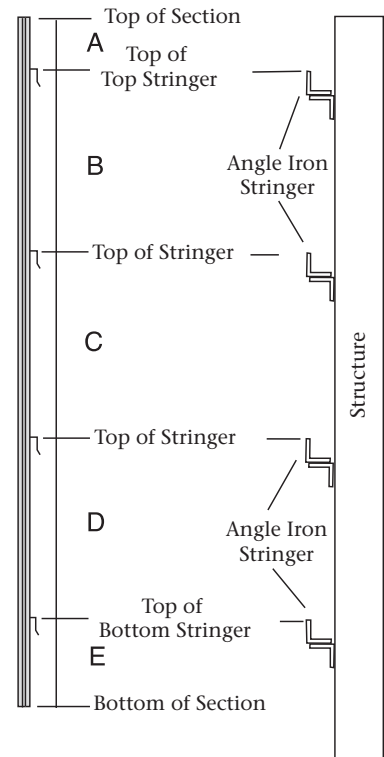
Rotarylok Hanger Spacing

Correct hanger spacing is important.

Measure from the top of the section down to the top of the top stringer. Then measure from top of stringer to top of next stringer down until all measurements are taken. Lastly, subtract all the above measurements from the total height of the section to get the last measure.

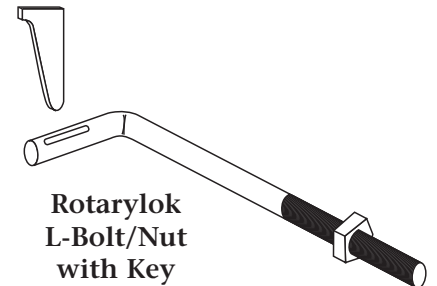
When matching old sections where you do not have the original stringer spacing recorded, remember that the hangers are probably out of kilter. You should measure from the top of section down with sections on the angle iron stringers, then measure the stringers on the structure for an accurate spacing.

Hanger Spacing

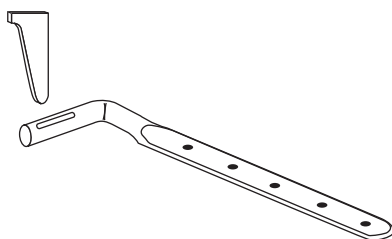


Rotarylok L-Bolt/Nut with Key Rotarylok Wood Clip with Key

When your angle iron is turned where you can not use hangers, or you have wooden stringers then your Rotarylok Sections can be attached to your angle iron stringers with L-Bolts and Nuts and "J" Clips or "RVJ" Clips on 4" x 3" angle iron. Use the Wood Clips to attach directly to wood stringers.

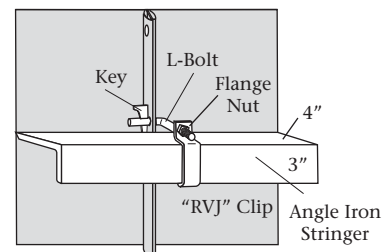


Rotarylok L-Bolt/Nut with Key

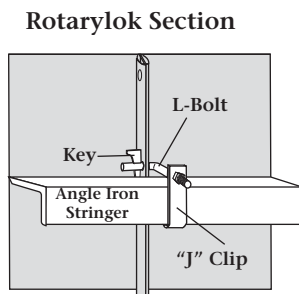


Rotarylok Wood Clips

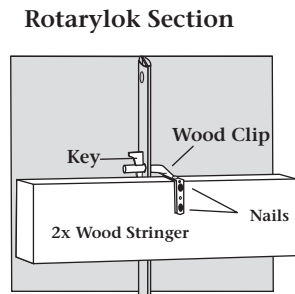
Rotarylok Sections



L-Bolt, Key and Flange Nut



L-Bolt/Nut



Wood Clip



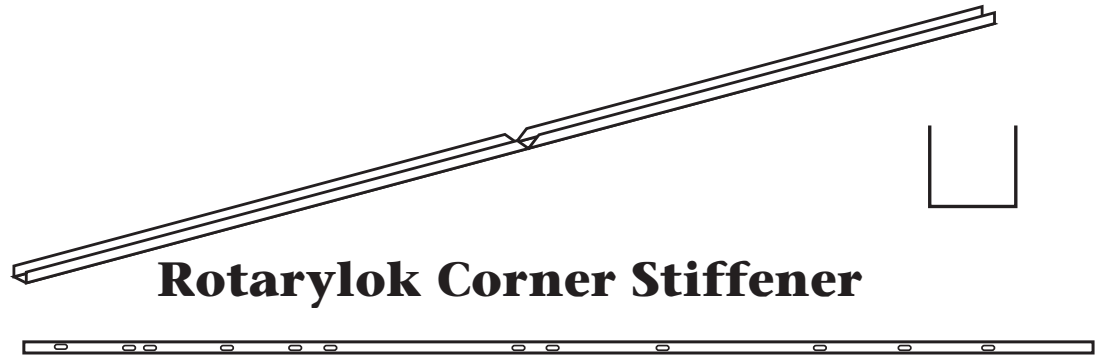
"RVJ" Clip
Use with L-Bolt
on 4" x 3" Angle Iron



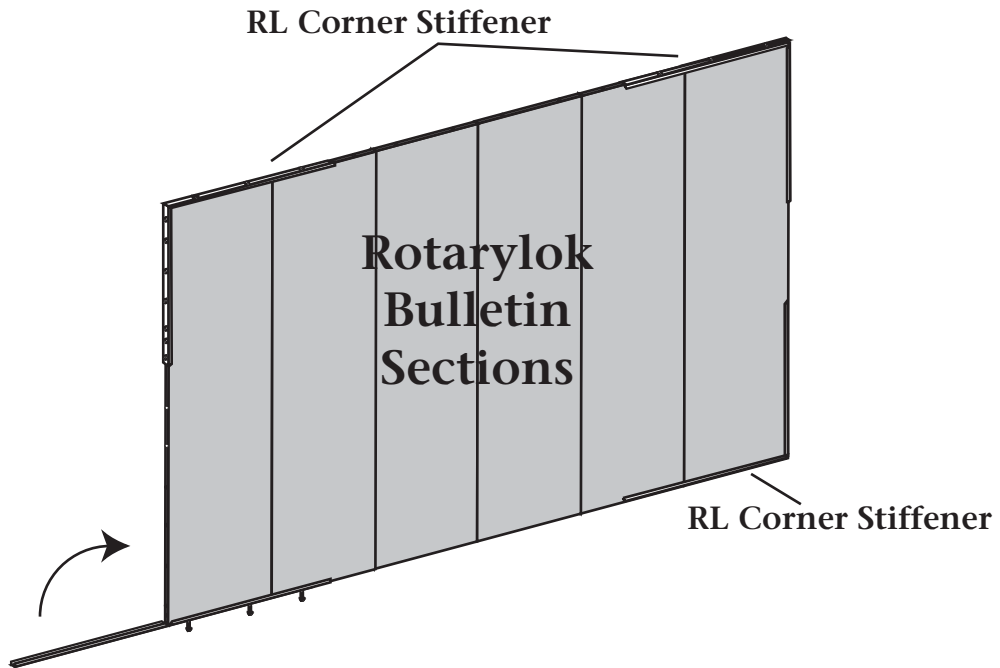
Excellence is our standard.

Rotarylok Bulletin Sections

Rotarylok Corner Stiffeners



Rotarylok Corner Stiffener



Rotarylok Corner Stiffeners Installed

Hanger Spacing Worksheet

Rotarylok and Dura-Paint Sections

Date: _____
 Sold To: _____
 Address: _____
 City, State, Zip: _____
 Contact Name: _____
 Phone #: _____
 Fax #: _____
 Cell Phone #: _____

Order #: _____
 Sold To: _____
 Address: _____
 City, State, Zip: _____
 Contact Name: _____
 Phone #: _____
 Fax #: _____
 Cell Phone #: _____

Rotarylok Sections

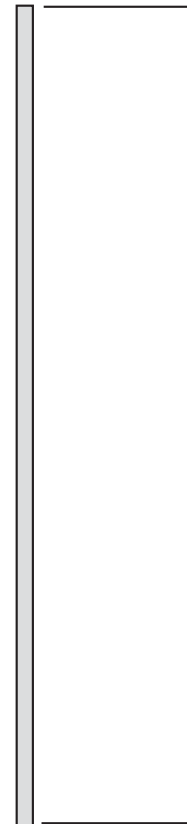
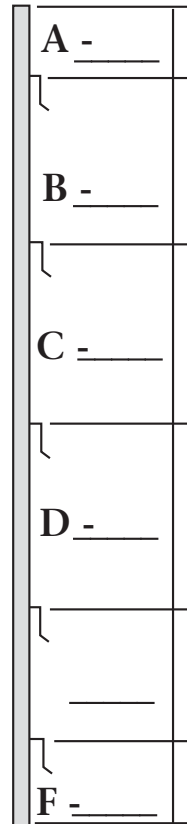
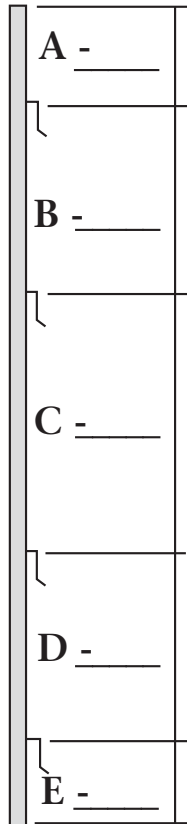
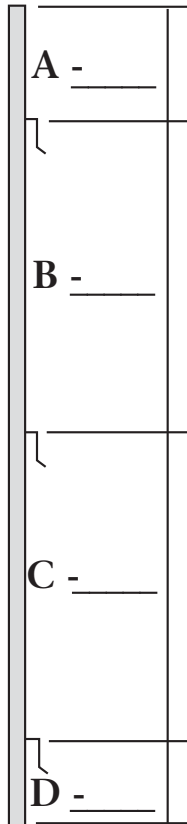
Dura-Paint Sections

3 Hangers
 Width _____
 Height _____

4 Hangers
 Width _____
 Height _____

5 Hangers
 Width _____
 Height _____

___ Hangers
 Width _____
 Height _____



Stop-Pop Front Yes No

Paint Back & Edges Yes No

Color: Brown Black Tan

White Other _____

Rotarylok & HOP Bulletin Sections

Rotarylok & HOP Tie-Down

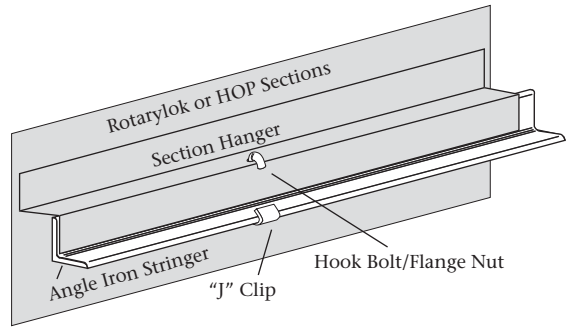
If you are located in a high wind area you'll need to tie-down your sections to the angle iron stringers.

Use a 4" Hook Bolt/Flange Nut and a 3" "J" Clip (with 3" x 3" angle iron) on every section across the back.

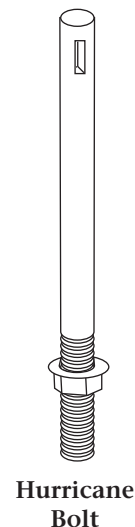
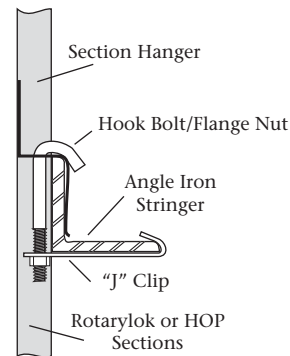
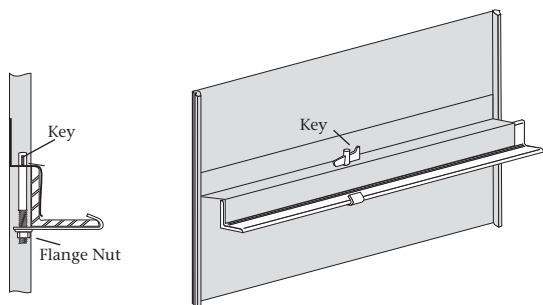
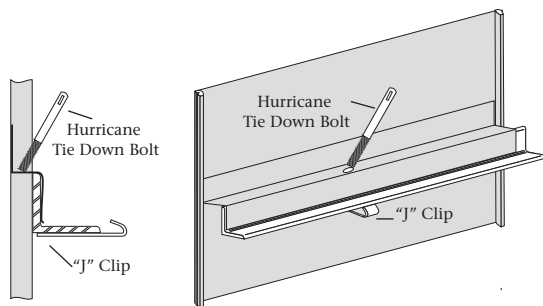
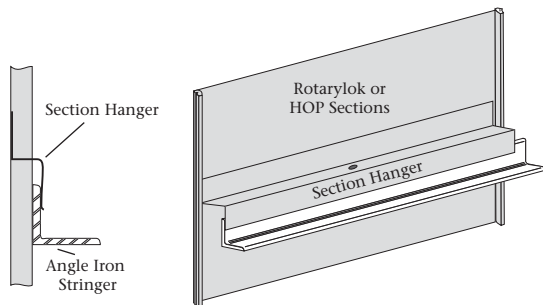
You may want to do more than one row.

Drop the Hook Bolt through the hole in the Hanger. The "J" Clip goes under the angle iron stringer and the Hook Bolt through the "J" Clip. Tighten the Flange Nut and the sections are secured.

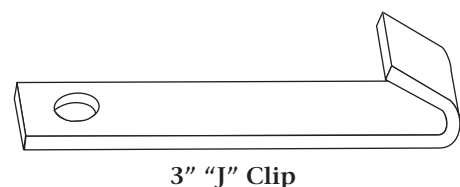
In a hurricane area use the Hurricane Bolt, Key and "J" Clip. Put the Hurricane Bolt through the hole in the hanger and put the Key through the slot. Attach the "J" Clip on the bottom and tighten the Flange Nut. When a hurricane is headed your way, simply knock out the Key with a hammer. This will allow the Bolt and "J" Clip to drop out of the way.



**Bulletin Sections Tie Down
Rotarylok and HOP Sections**



Hurricane Bolt



3" "J" Clip

Dura-Paint Bulletin Sections

The Formetco Dura-Paint Bulletin sections are made using MDO Plywood (good both sides) and salt treated kiln dried 2"x4" framing. The 2"x4" cross members are lap jointed for a stronger section.

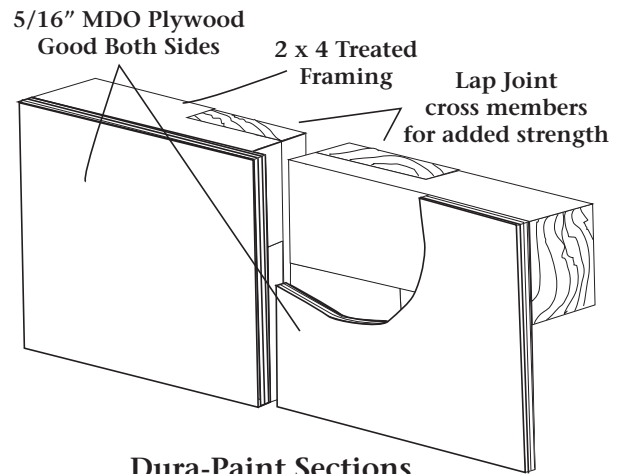
The Dura-Paint sections are available in 4' wide by 10', 10' 6", 12' and 14' lengths using a one piece factory sheet. 16', 18' and 20' sections are also available.

The Dura-Paint hardware is designed to secure the sections together for a tight fit. This tight fit will keep the sunlight and night lights from showing through the face and keep your sections aligned.

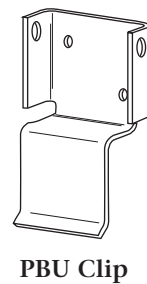
Pins & Keys

The PBU Clip is designed with two ears eliminating the need to double inventory of "left" and "right" brackets. The Pin & Key pull the sections tight. Two PB Elevator Bolts and Nuts secure each PBU Clip to the sections. The two PB Elevator Bolts and Nuts fit flush with the face surface.

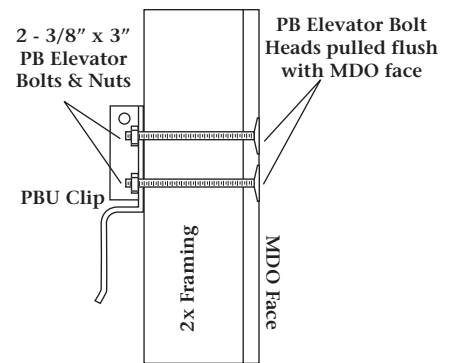
Formetco has 5/16" Dura-Ply Sheets, Good Both Sides, available in 4'x10' 6", 4'x12' and 4'x14'. Also, 4'x8' - 12" Dura-Ply Sheets (good one side) are available for Cut-Out extensions.



Dura-Paint Sections

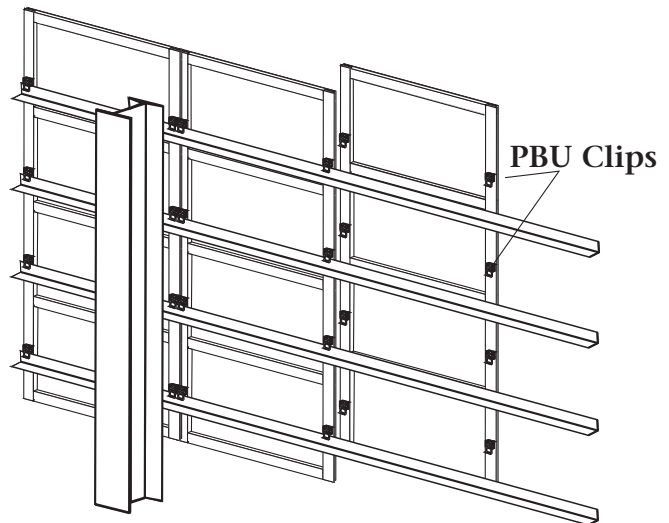


PBU Clip



PBU Clip Mounted on DuraPaint Face

4' wide Dura-Paint Bulletin Sections



HOP Bulletin Sections

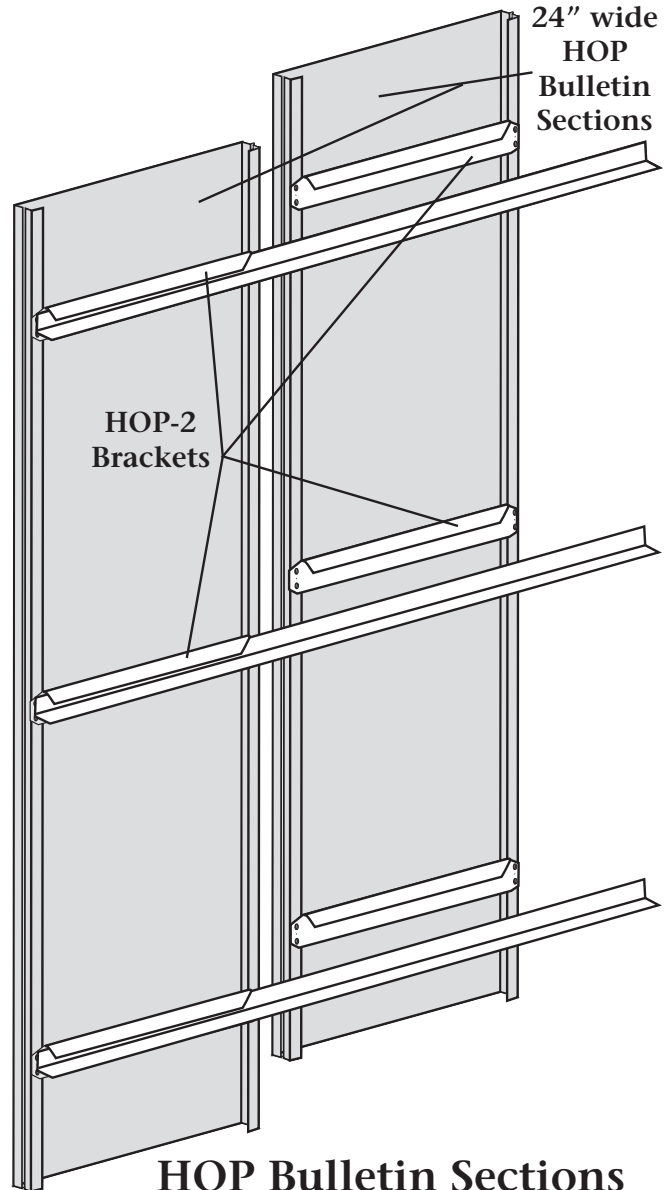
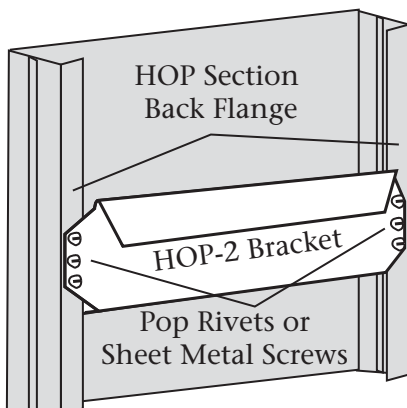
The Formetco Hang On Paint (HOP) Bulletin sections are 24" wide by 10' 6", 12' and 14' lengths. The 2' wide sections are tongue and grooved for flat face alignment. The strong one-piece HOP-2 Brackets are attached to the flange with pop-rivets or sheet metal screws. Special sections available in lengths from 4' to 19' 6".



HOP-2 Brackets

To attach the HOP-2 Brackets to the HOP sections, lay the section face down. Starting from the top of the section, measure down each flange and mark the location of the stringers. You can make a template for locating the HOP-2 hanger locations.

Lay a HOP-2 Bracket on each mark on the flange. Drill or punch holes to match the holes in the HOP-2 Bracket. Use either sheet metal screws or pop rivets to secure the HOP-2 Brackets to the flanges.

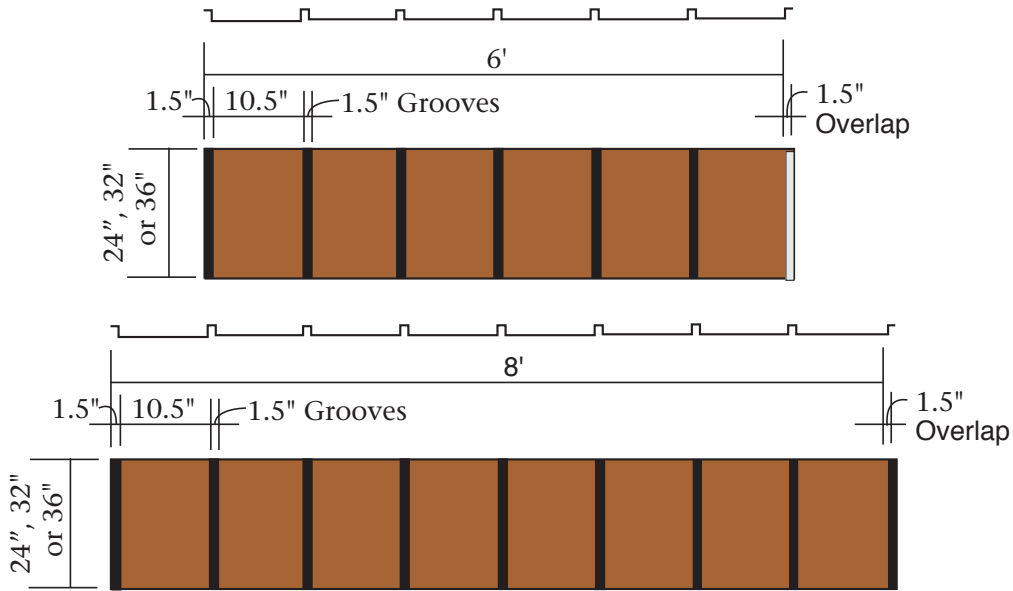


**HOP Bulletin Sections
on Angle Iron Stringers**

Formetco All Steel Aprons

**Save \$1,000s on installation, maintenance and replacement.
20 Year Guarantee!**

The mill guarantees the cedar baked enamel finish for 20 years! The automotive stripes are guaranteed for 6 years. In the field they are easily replaced by taping over the old stripes after wiping them clean.



Typical Steel Apron Layouts																
Apron Length	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'			
Apron Size							*			*			*			
6' Apron	2	1	0	3	2	1	4	0	3	2	5	1	0	3	6	2
8' Apron	0	1	2	0	1	2	0	3	1	2	0	3	4	2	0	3
Apron Length	38'	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	60'				
Apron Size			*			*				*		*				
6' Apron	1	0	7	3	2	5	8	0	3	2	1	0	4	3	10	2
8' Apron	4	5	0	3	4	2	0	6	4	5	6	7	4	5	0	6

*Note: Some Apron lengths can be made with two different combinations.

Hangers can be installed on the Steel Aprons to your apron angle iron stringer specifications before shipping. Hang the Aprons on the angle iron stringer and secure with screws.

20 Year Warranty* on Cedar Color Apron

6 Year Warranty* on Striping

*Formetco's liability is limited to the Manufacture's Warranty



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Clip-It Cut-Out System

Clip-It Cut-Out Mast Assembly

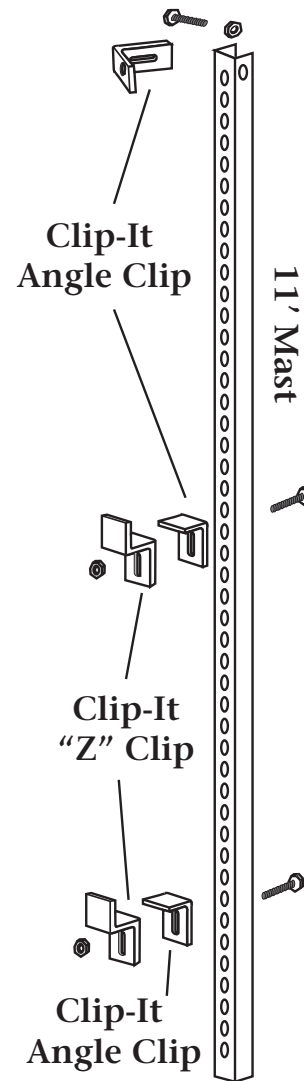
The strong 11' Clip-It Cut-Out Mast is designed to attach to the two top stringers of your structure and to the top of the extension. The Mast is punched every two inches to allow easy adjustment of the Cut-Out "Z" Brackets and Cut-Out Angle Clips to your angle iron stringers for extensions of 12" to 60" above the top of the sections.

A Cut-Out Angle Clip is attached to the top of the Mast and secured to the top of your extension with a 3/8" x3" Elevator Bolt/Flange Nut. The angle clip is slotted for adjustment of the extension to fit flush with the section face.

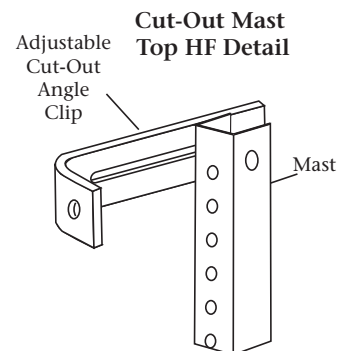
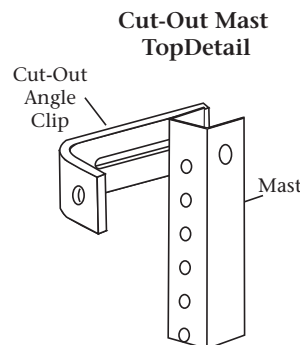
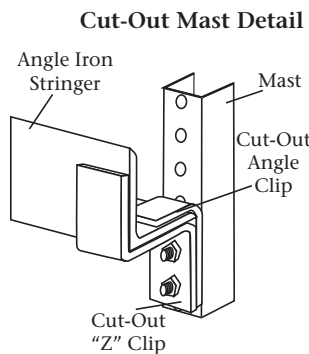
The Cut-Out Mast is secured to the angle iron stringers with Cut-Out "Z" Clips and Cut-Out Angle Clips. This creates a vise type grip on the angle iron stringers locking the Mast to the structure. Both the Cut-Out "Z" Clip and the Cut-Out Angle Clip have slotted holes for easy and fast attachment to the stringers which eliminates the costly time to weld or punch holes at each structure. The Cut-Out "Z" Clips are available for 2" or 3" angle iron stringers.

The Clip-It Cut-Out System makes cut-outs on a rotary leg a snap to handle.

Clip-It Cut-Out System Mast



Clip-It Cut-Out Components Material List per Mast <i>1 Mast assembly for every 4' of Extension</i>	
11' Cut-Out Mast	1
2" or 3" Cut-Out "Z" Clips	2
Cut-Out Angle Clips	3
3/8" x 3" Elevator Bolts/Nuts	11
1/2" x 1 1/2" Carriage Bolt/Flange Nuts	6



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Clip-It Cut-Out System

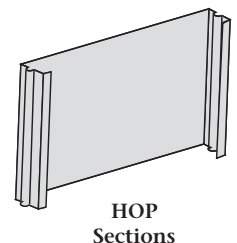
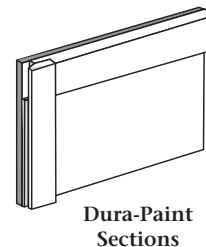
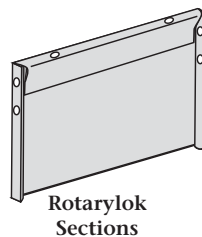
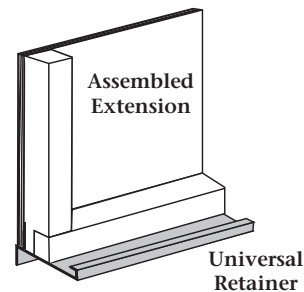
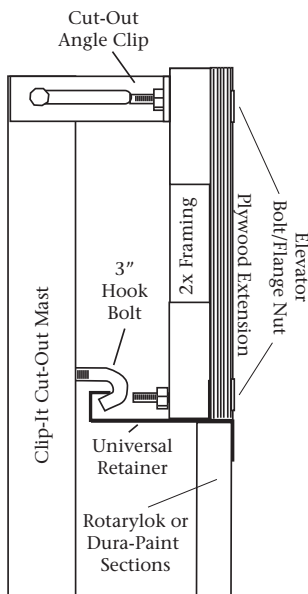
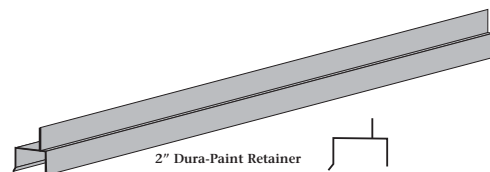
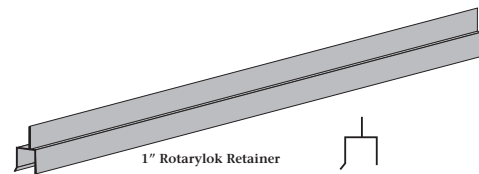
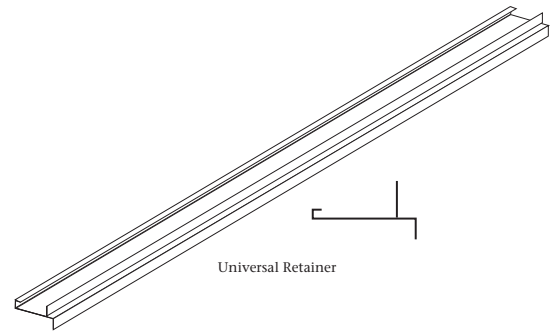
Clip-It Cut-Out Retainers

The Formetco 8' Clip-It Cut-Out Retainer is designed to align and secure the cut-out extension to the top of your bulletin sections. Cut-outs fabricated with the Clip-It Cut-Out Retainers and installed with the Clip-It Cut-Out Mast Assembly fit snug on top of your section pulling flush with the face. After the copy has been glued on, only a trained eye can tell where the cut-out begins. Special sized retainers are available to fit over flexible vinyl faces to give your vinyl extensions a perfect match with the face.

The Clip-It Cut-Out Universal Retainer works on all sizes of sections. Using a 3" Hook Bolt/Flange Nut tie the Universal Retainer to the Cut-Out Mast. This will pull the extension tight with the vinyl face, eliminating the line between extension and vinyl face. With the extension attached to the top of the Cut-Out Masts, it becomes part of the structure.

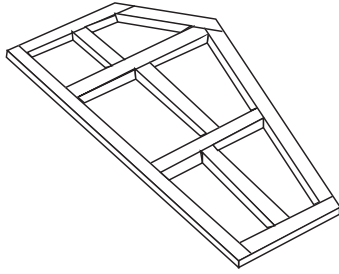
Retainers are also available for Rotarylok, Hop and Dura-Paint sections.

Cut-Out Retainers	
<i>All Retainers 8' lengths</i>	
8' Universal Retainer	for all types of sections
8' Rotarylok Retainer 1"	for Rotarylok Sections
HOP / Dura-Paint Retainer 2"	for HOP and DP Sections

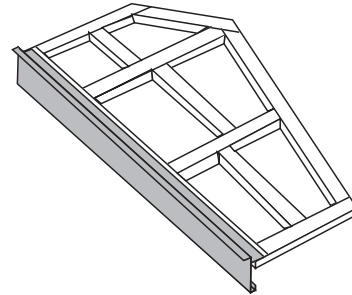


Clip-It Cut-Out System

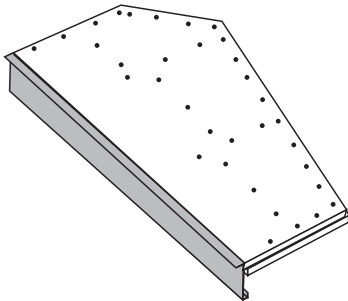
Extension Assembly



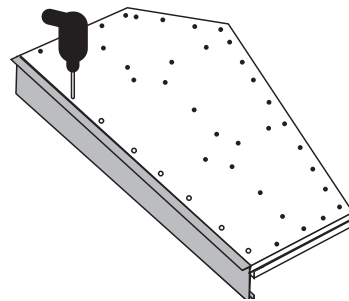
1. Assemble extension frame with 2x material



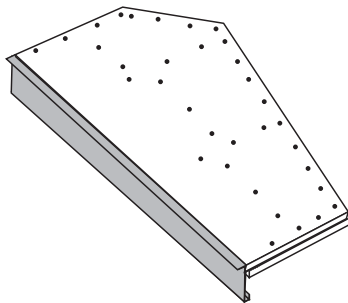
Place Retainer Flange across bottom of extension. Lay plywood on top.



Secure plywood to 2x with nails, screws or staples.

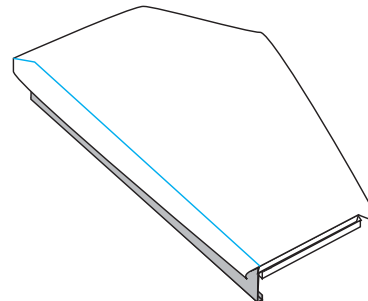


Drill 7/16" holes through plywood, Retainer Flange and 2x every 11 1/2" to 12". Drill holes at top where Cut-Out Retainers will be located



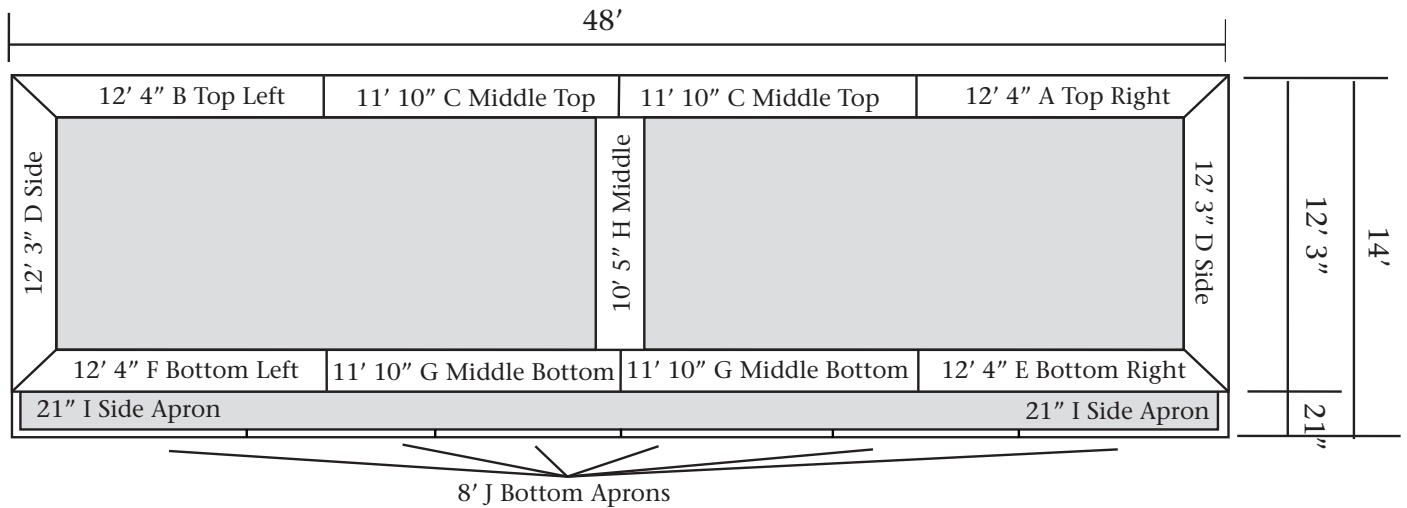
Place 3/8" x 3" Elevator Bolts through each hole going through Retainer Flange and secure with Flange Nuts.

Attach a Cut-Out Angle Clip to the Elevator Bolts for the Cut-Out Masts and secure with a Flange Nut.



Apply Bill-Tite 450 to the surface of the extension and Retainer lip. Place vinyl on the extension and roll out to remove air bubbles. Important: Make sure the "Match Line" on the vinyl aligns where the Retainer and the plywood meet. Apply extra paste around edges if needed. When dry trim edged of vinyl.

Convertible Trim

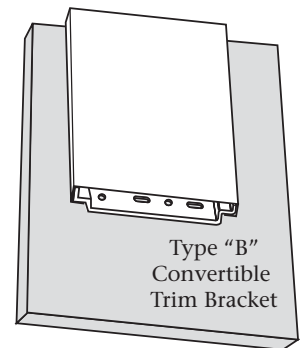


Convert your bulletins using the Formetco Convertible Bulletin & Poster Panel System to two side-by-side poster panels or a 14' x 48' vinyl bulletin, which eliminates empty faces in your rotary legs. With the Formetco Convertible Trim System installed to your existing faces, two side-by-side poster panels can be displayed keeping your faces full with copy at all times, eliminating blank faces. Simply stretch a flexible vinyl over the Formetco Convertible Trim for a 14' x 48' flexible face bulletin. The Formetco Convertible Trim System is available in standard outdoor colors and white 10 mil vinyl trims.

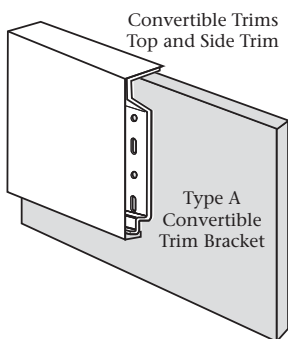
Convertible Trim Materials List

Item	Quantity	Size	Description
A	1	11" x 12' 4"	Top Right Trim (Type "A" Trim Brackets)
B	1	11" x 12' 4"	Top Left Trim (Type "A" Trim Brackets)
C	2	11" x 11' 10"	Top Middle Trim (Type "A" Trim Brackets)
D	2	11" x 12' 3"	Side Trim (Type "A" Trim Brackets)
E	1	11" x 12' 4"	Bottom Right Trim (Type "B" Trim Brackets)
F	1	11" x 12' 4"	Bottom Left Trim (Type "B" Trim Brackets)
G	2	11" x 11' 10"	Bottom Middle Trim (Type "B" Trim Brackets)
H	1	11" x 10' 5"	Vertical Middle Trim (Type "B" Trim Brackets)
	24		Type "A" Convertible Trim Brackets
	15		Type "B" Convertible Trim Bracket
	176		#14 Self Drilling Screws
I	2	1.25" x 21"	Side Convertible Apron Trim
J	6	1.25 x 8'	Bottom Convertible Apron Trim

Convertible Trim Center Trim

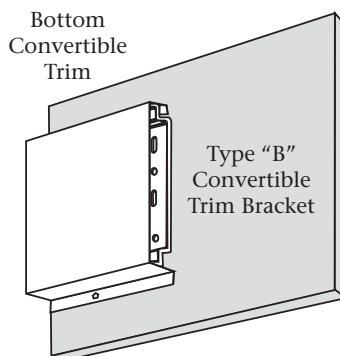


Type "B" Convertible Trim Bracket



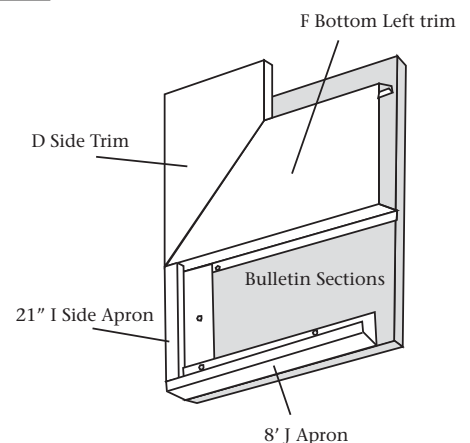
Convertible Trims Top and Side Trim

Type A Convertible Trim Bracket



Bottom Convertible Trim

Type "B" Convertible Trim Bracket

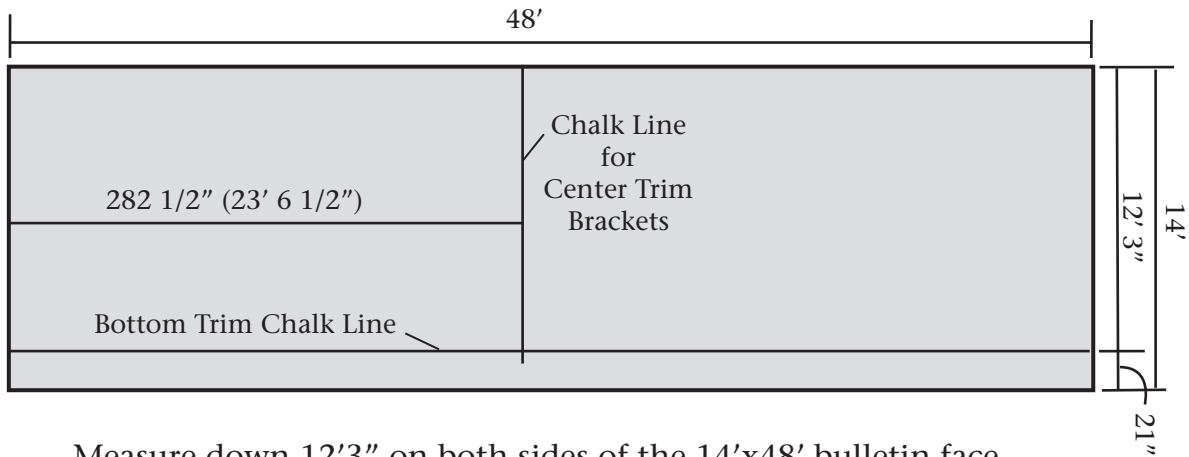


FORMETCO
OUTDOOR

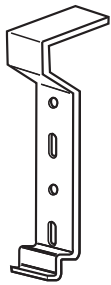
Excellence is our standard.

Convertible Trim

Trim Bracket Installation



Measure down 12'3" on both sides of the 14'x48' bulletin face. Make a chalk line across the entire 48'. Measure horizontally from one side toward the middle 282 1/2" and make another chalk line vertically. Now you are ready to install the Convertible Trim Brackets.



Type A
Convertible
Trim
Bracket

Install 12 of the Type "A" Convertible Trim brackets using #14 screws across the top of the bulletin sections, three (3) for every 12'. Install three (3) Type "A" Trim brackets on each side for the side trims.

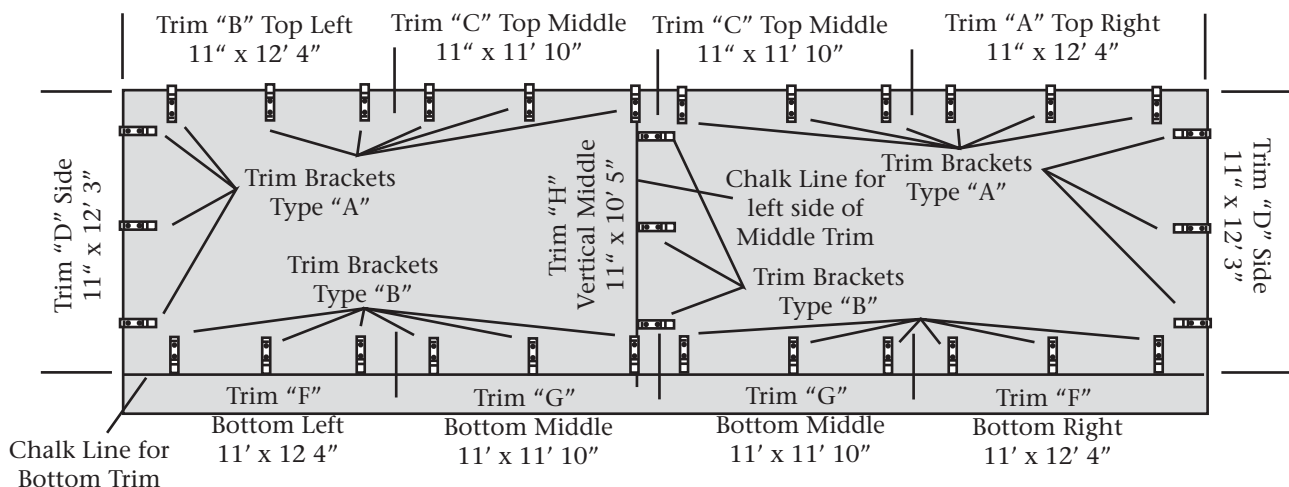


Type B
Convertible
Trim Bracket

Install 12 of the Type "B" Trim Brackets across the bottom chalk line with the bracket touching the line that is in line with the top brackets.

Install three (3) up the center line opposite from the side you measured from for the vertical trim.

You are now ready to add the Convertible Trim.



Excellence is our standard.

Convertible Trim

Trim Installation

Snap the "A" Left Top, three "C" Top Middle and the "B" Top Right Trims over the trim brackets. Slide into position but do not install the #14 screws yet.

Install the two "D" Side Trims at each side. Adjust the mitered corners with the Top Left and Top Right.

Install the "F" Bottom Left, three (3) "G" Bottom Middles and the "E" Bottom Right Trims over the trim brackets. Align the mitered corners.

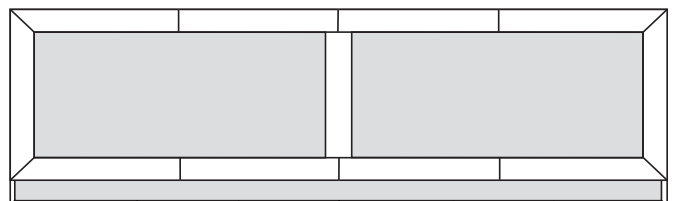
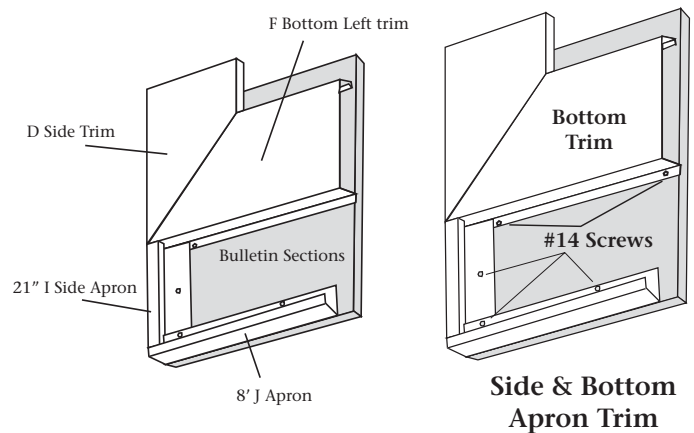
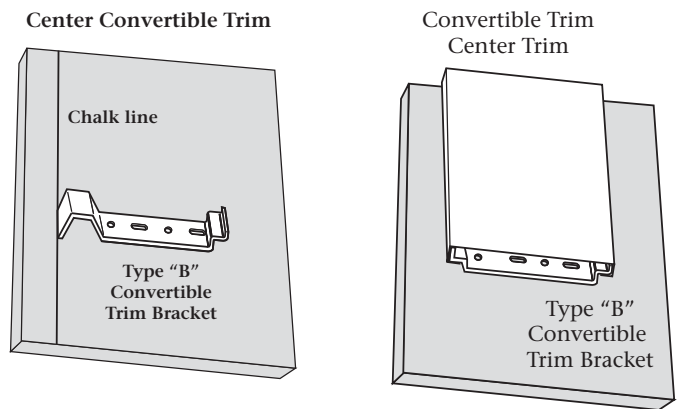
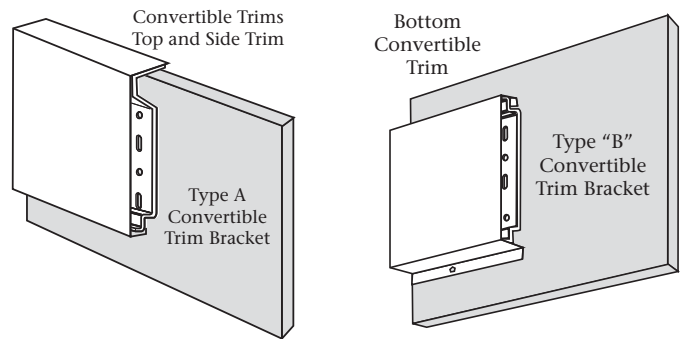
With the corners aligned and the trim pieces in place, install #14 screws around the outer flange and along the inside edges into the trim bracket. Install #14 screws in the top and side trim pieces through the trim brackets.

Install the "H" Vertical Trim piece up the middle. Secure with #14 screws through the flange and the outer edge of the trim piece into the trim bracket.

Install the two 21" "I" Side Convertible Apron Trim pieces on each side of the bulletin face below the Convertible Trim. Use #14 screws through the apron flange and bulletin face.

Start at either end and install the six (6) "J" Bottom Convertible Apron Trim pieces with #14 screws through the apron flange and the section.

The Convertible Apron Trim is unpainted. You can paint the Apron Trim and the area of the bulletin face to match the apron under the bulletin face.



FX Vinyl Brackets

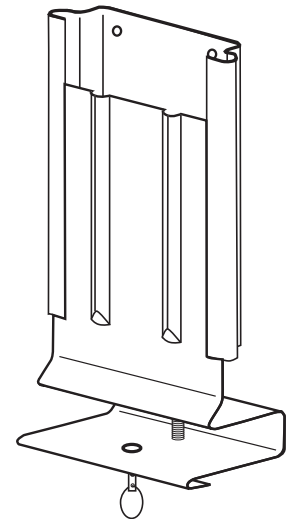
Bottom FX Vinyl Tensioning Bracket

The adjustable Bottom FX Vinyl Tensioning Bracket eliminates ratchets at the bottom of bulletin sections and is adjustable for different size vinyls.

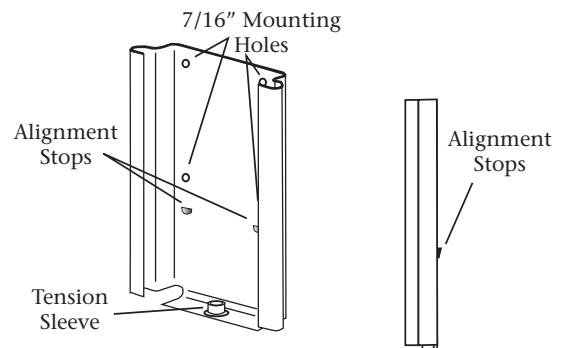
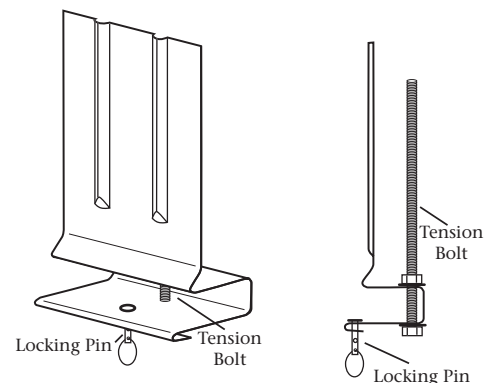
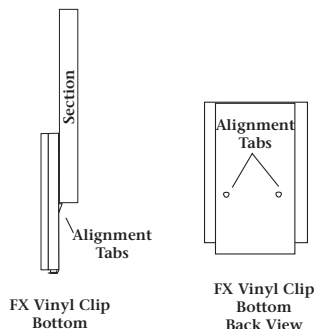
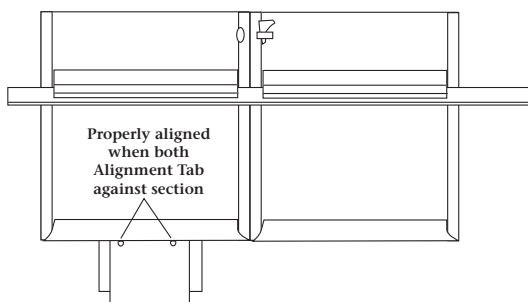
Fabricated from heavy 12 gauge steel the two piece FX Tensioning Bracket has ridges for extra strength. The FX Vinyl Tensioning Bracket has two punched-out notches (Alignment Tabs) on the back for square alignment. To mount, slide the bracket up on the section until both punched-out notches (Alignment Tabs) hit the bottom of the section. Secure the bracket with four #14 Hex Head Screws or with 4 - 1/4" x 1" Bolt/Nut.

Installing vinyls is fast and easy. No cutting of the vinyls for installation.

Roll out the vinyl across the top of the bulletin face as normal and secure across the top and sides with ratchets. Pull down on the Vinyl Clip ring to open the bracket. Install gripper bars in bottom pockets. Push the vinyl and gripper bar into the bracket and push the Pin up until it locks in place. The vinyl is now installed. **Use 2 FX Vinyl Brackets for each 8' or less Gripper Bars. Use 3 FX Vinyl Tensioning Brackets for 10' and 12' Gripper Bars. Use 4 FX Vinyl Brackets for 14' Gripper Bars.**



FX Vinyl Tensioning Bracket Bottom



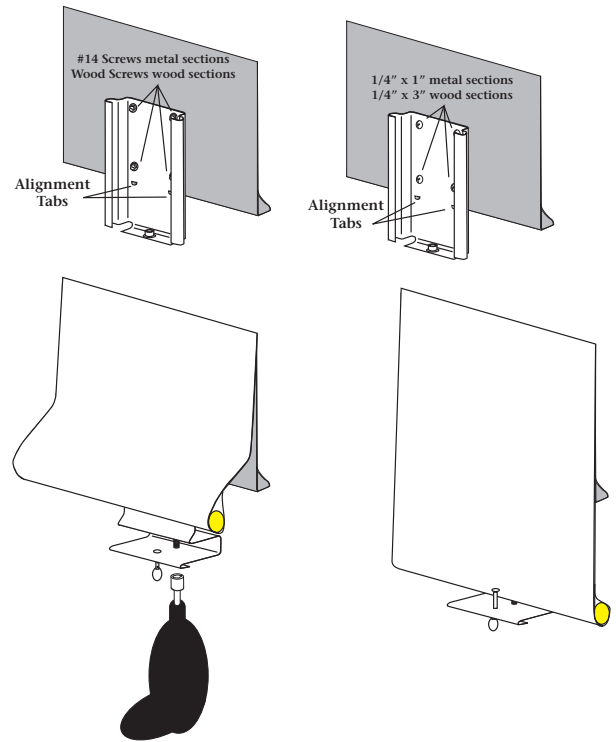
FX Vinyl Clips

Bottom FX Vinyl Bracket

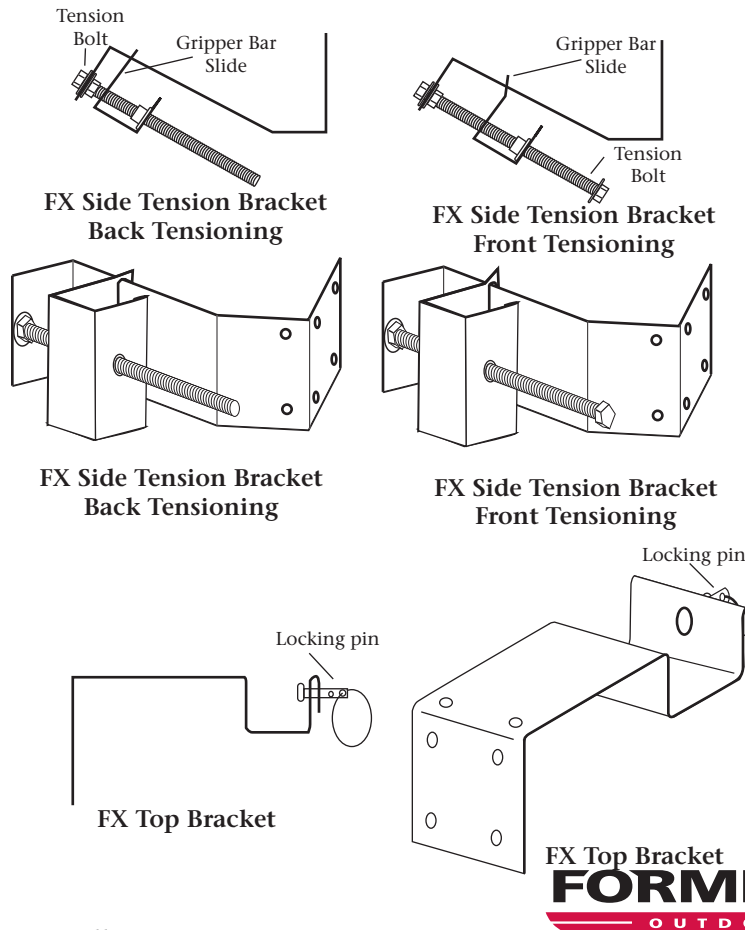
Installing vinyls is fast and easy. No cutting of the vinyls for installation.

Roll out the vinyl across the top of the bulletin face as normal and secure across the top and sides with ratchets. Pull down on the Vinyl Clip ring to open the bracket. Install gripper bars in bottom pockets. Push the vinyl and gripper bar into the bracket and push the Pin up until it locks in place.

Use a ratchet wrench or a power drill with socket and tension the vinyl. The vinyl is now installed.



FX Vinyl Bracket Top and Sides



The Top FX Vinyl Brackets mount across the top of the sections directly above the Bottom FX Vinyl Brackets with #14 Screws in the sections face and into the side of the edge of the sections. Open Locking Pin and place vinyl and Gripper Bars in bracket and lock the Locking Pin.

The Side FX Vinyl Brackets are available for front tensioning or rear tensioning. Make your choice when ordering. Secure to the section face and edge with #14 screws.

Use a ratchet wrench or a socket on a power drill to tension vinyl.

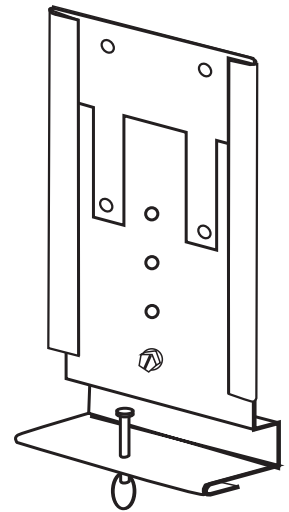
Rotary Vinyl Clips

The Rotary Vinyl Clip eliminates ratchets at the bottom of bulletin sections. Is adjustable for different size vinyls from 3" to 6" below the bottom of the bulletin face. Fabricated from heavy 12 gauge steel. The Rotary Vinyl Clip has two punched-out notches (Alignment Tabs) on the back for square alignment. To mount, slide the bracket up on the section until both punched-out notches (Alignment Tabs) hit the bottom of the section. Secure the bracket with four #14 Hex Head Screws.

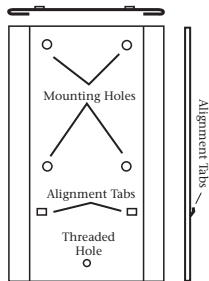
The Rotary Vinyl Clip is adjustable to attach vinyls that have a 3" overlap up to 6" overlap. Remove the threaded bolt and slide the bottom part of the bracket to the proper position and reinstall the threaded bolt.

Installing vinyls is fast and easy. No cutting of the vinyls for installation.

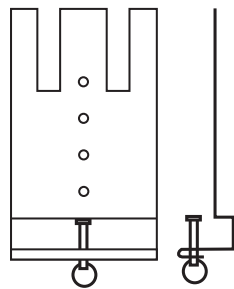
Roll out the vinyl across the top of the bulletin face as normal. Pull down on the Vinyl Clip ring to open the bracket. Install gripper bars in bottom pockets. Push the vinyl and gripper bar into the clip and push the Pin up until it locks in place. The vinyl is now installed.



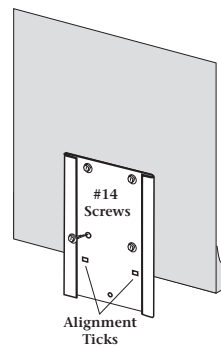
Rotary Vinyl Clip



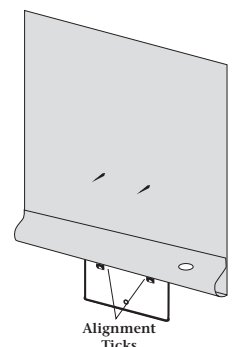
Rotary Vinyl Clip
Back Mounting Bracket



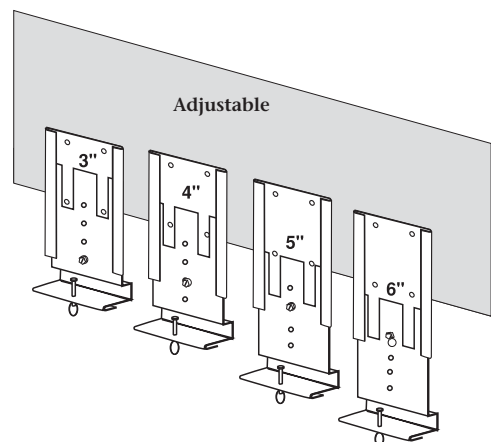
Rotary Vinyl Clip
3" to 6" Adjustable Bracket



Alignment
Ticks



Alignment
Ticks



Adjustable