

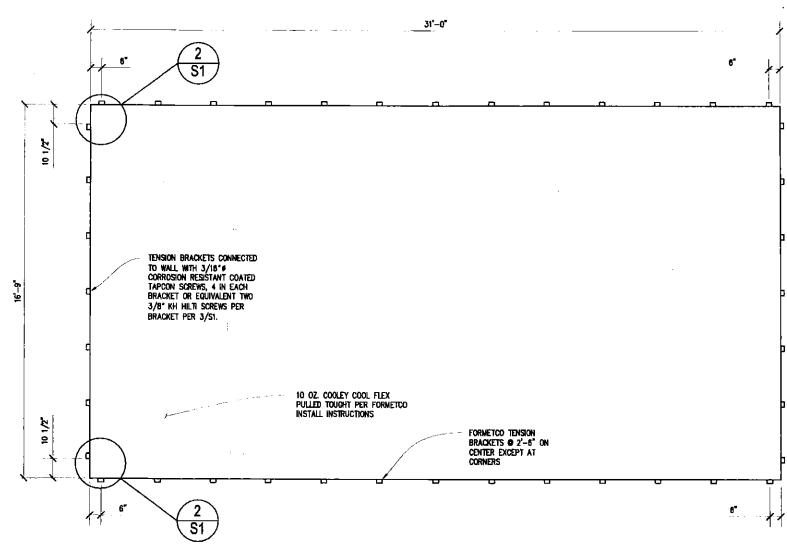


TENSION BRACKET SCREW CONNECTION DETAIL

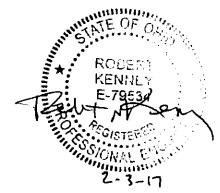
SCALE: 1/4" = 1'-0"

1714 Washington Street, Boston, MA 02118

Dated: July 11, 2017



- ALL MASONRY SCREWS MUST BE ATTACHED TO STRUCTURE, PREDRILL THROUGH BRICK FACADE. MASONRY SCREW MUST EMBED INTO CMU MORE THAN 1°.
- 2. CONTRACTOR/ OWNER RESPONSIBLE FOR CONFIRMING CMU STRUCTURE. IF OTHER STRUCTURE IS IDENTIFIED, CONTACT ENGINEER FOR APPROPRIATE DESIGN/LAYOUT OF CONNECTIONS.
- 3. EDGE OF SIGN TO BE AT LEAST 10" FROM EDGE OF VERTICAL WALL
- TAPCON MINIMUM EMBEDMENT TO BE 1 %"IN MORTAR OR WALL OR CONCRETE FILLED CELL OF WALL IF CMU WALL AND 1% IN BRICK OR MORTAR IF BRICK WALL. HILTI MINIMUM EMBEDMENT TO BE 11 IN MORTAR OR WALL OF CONCRETE FILLED CELL OF WALL IF CMU WALL AND 2"IN BRICK OR MORTAR IF BRICK WALL.

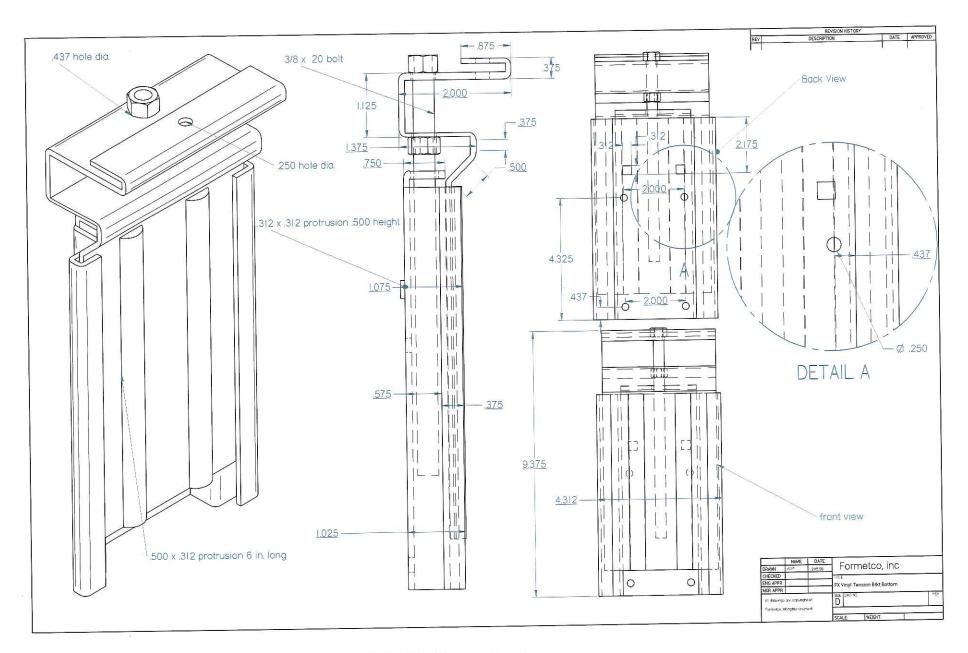


TENSION BRACKET DESIGN SCALE: 1/4" = 1'-0"

TENSION RACKET DESIGN NOT ISSUED FOR CONSTRUCTION

Structural Engineering Group 6230 Regency Parkway Norcross, GA 30071 (678) 990-3280 phone

FORMETCO TENSION BRACKET DESIGN



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FRONT VIEW OF BILLBOARD

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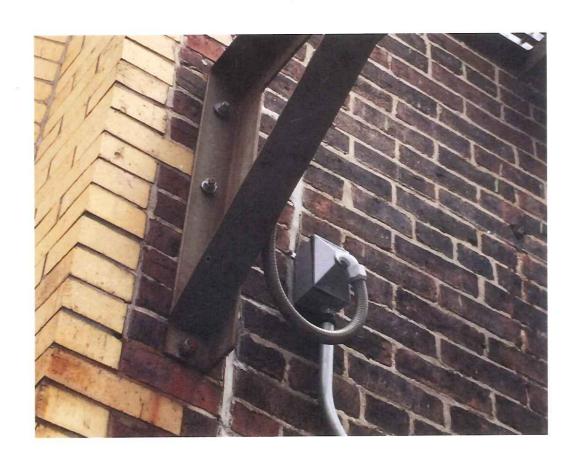








PLATFORM BRACES



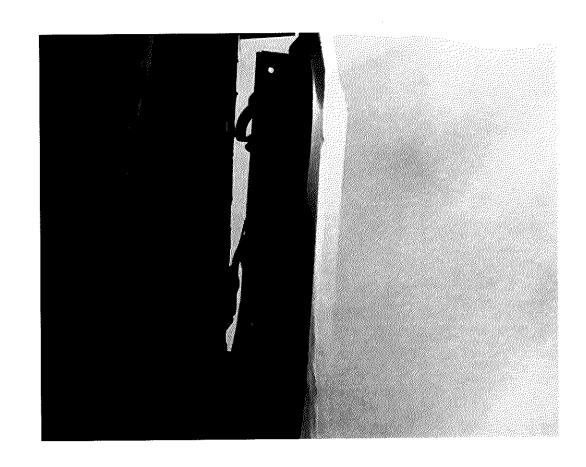
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BOTTOM LEFT SIDE VIEW



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TOP LEFT SIDE VIEW-STRUCTURAL DEFORMITY



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TOP LEFT VIEW-STRUCTURAL IRREGULARITIES



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BOTTOM LEFT CATWALK



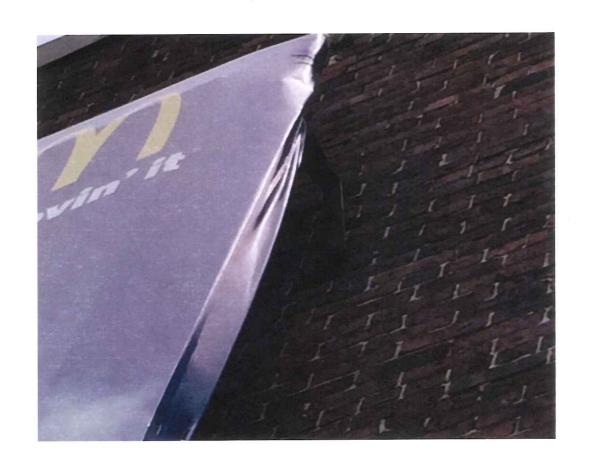
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VIEW FROM BELOW CATWALK



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BOTTOM RIGHT VIEW SHOWING STRUCTURAL DEFORMITY

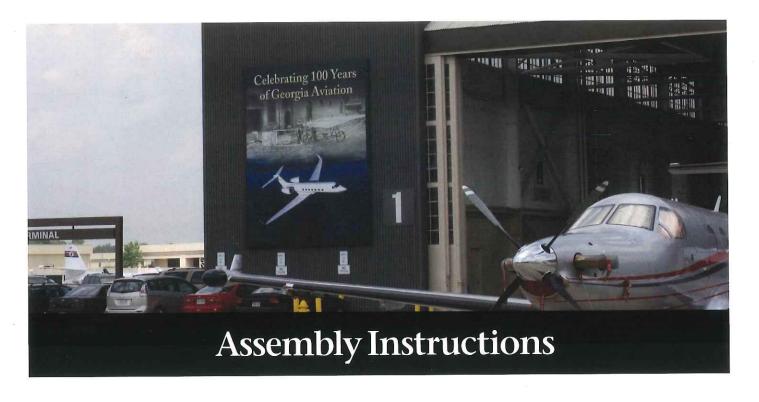


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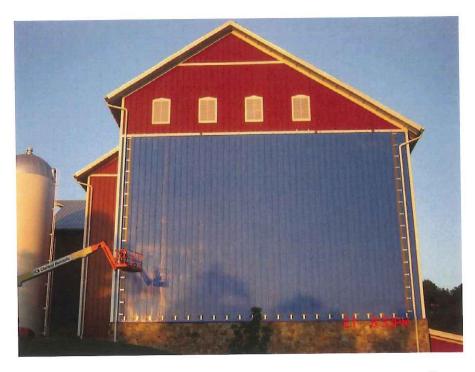


Wall Mounted Vinyls Invisible Frame System & Wall Brackets



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This 47' x 68' is installed in Pigen Forge, TN for a Lamar client. They were printed by Formetco for Lamar. See Page 24

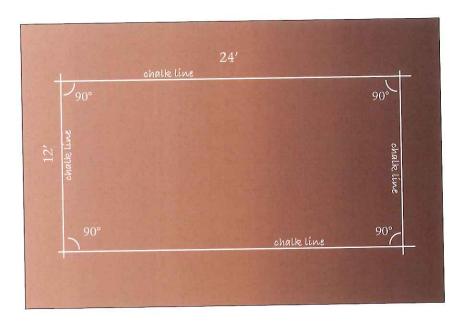


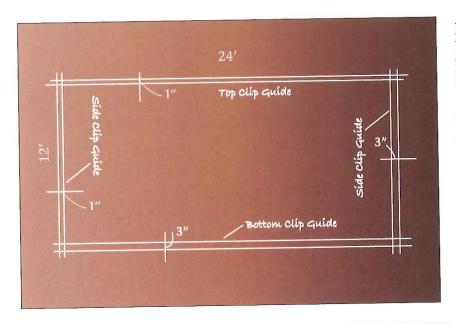
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Wall Layout

Using chalk, or other means, layout the copy area of the vinyl you intend to install.

Make sure that you keep it square and that you have each corner at a 90° angle.





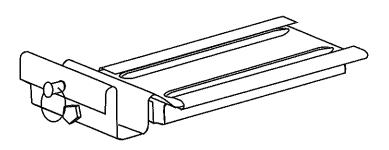
Next, make a chalk line 1" below the top copy area chalk line and one 1" inside one of the side chalk lines.

Now make a chalk line 3" above the bottom chalk line and on the opposite side chalk line.

These will be the installation lines for the FX Vinyl Tensioning Bracket Base.

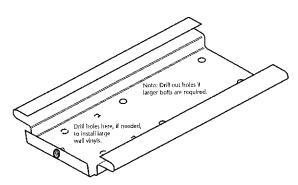
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The FX Vinyl Tensioning Bracket comes assembled. To ease installation of the FX Bracket to the surface use a socket or adjustable wrench and remove the adjustable slide from the base.

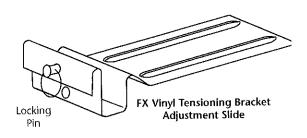


FX Vinyl Tensioning Bracket

The FX Bracket Base has 4 - 1/4" mounting holes (2 at top and 2 at the center). These can be drilled out to accept larger bolts, lags or screws. If needed, 2 holes can be drilled at the bottom.

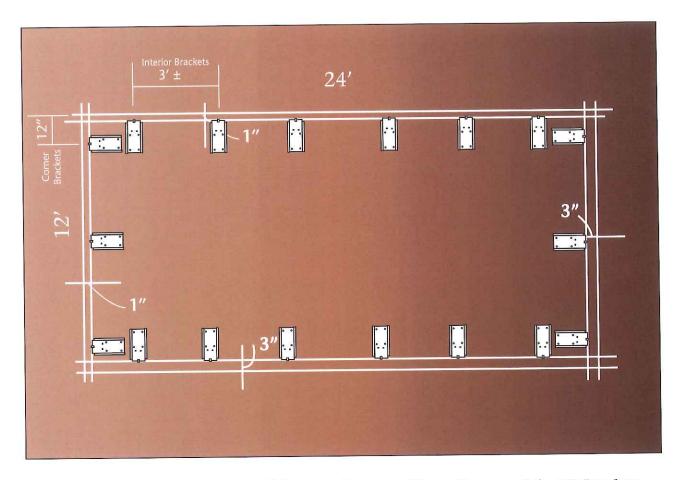


FX Vinyl Tensioning Bracket Base



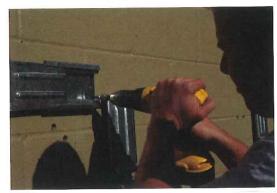
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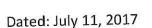


Place the corner FX Brackets in 12" from each corner. Then, the rest of the FX Brackets should be placed at least every 3'. For best results, align the FX Brackets top to bottom and side to side. (See Page 22)

Note: Bolts, Lags or Screws to attach FX Brackets to wall are supplied by others.



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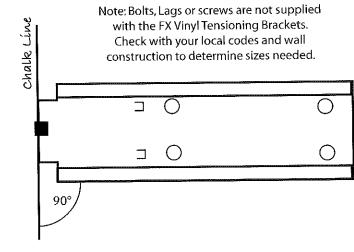


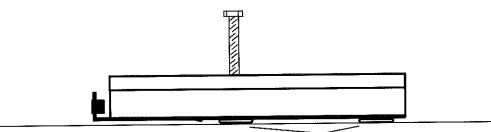


Use Base to mark hole locations on wall.

Make sure the FX Bracket is 90° to the chalk line.

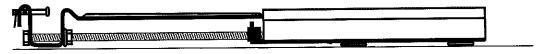
If larger bolts, lags or screws are required, drill the holes out to fit.





When you install the bolts, lag or screws place washers between the bracket base and the structure.

Install Bracket slide into bracket base and tighten all the way before installing the vinyl.

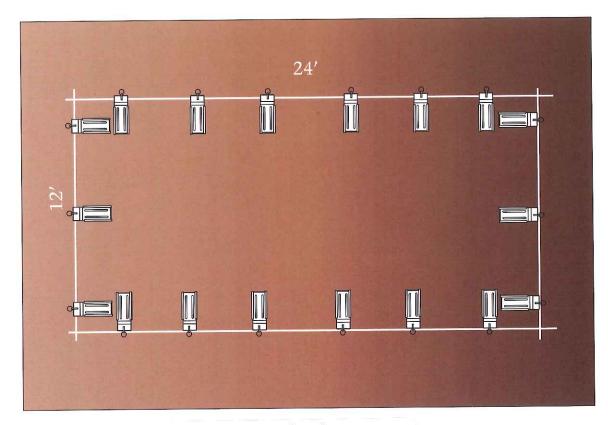


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Now that the FX Vinyl Tensioning Brackets have been installed and the brackets are re-assembled you are ready to install the vinyl.

The FX Vinyl Tensioning Brackets give you the flexibility of installing vinyls up to 3" smaller than the copy size and up to 6" larger than copy size.

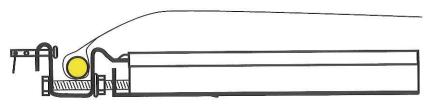




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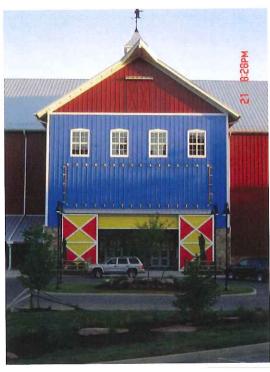
Place the gripper bars in the top pocket. Place the vinyl and gripper bars in the FX Brackets and snap the Locking Pin closed. You need to weld or seal the bottom of the side pockets to keep the gripper bars from dropping out. Place the side vinyl and gripper bars in the side FX Brackets and snap the Locking Pin closed. Now do the same across the bottom.

Tension the vinyl on the bottom and one side until tight.



Place Gripper Bars in vinyl pockets and insert into the FX Vinyl Tensioning Bracket. Lock the Locking Pin. When the vinyl and Gripper Bars have been installed in all of the brackets start tensioning the FX Vinyl Tensioning Brackets across the bottom and up the side.







This 14' x 48' is installed in Pigen Forge, TN for a Lamar client. They were printed by Formetco for Lamar. See Page 18

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Boston, MA 02118



FORMETCO'S TENSIONING BRACKET

For use on billboards and as a wall system. Fabricated from 12 gauge steel from two pieces the tensioning bracket has ridges for extra strength and has two punched out notches on the back for square alignment.

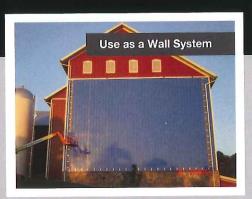
KEY FEATURES AND BENEFITS:

- · Fully adjustable with the vinyl attached
- · Eliminates the use of ratchets on the bottom of your billboards
- · Copy is easily installed and released with a push or pull of a pin
- Copy is pulled straight down instead of wrapping around the bottom of the boards
- Eliminates nesting animals and pooling water, thus extending the life of your panels
- Includes all mounting hardware
- Install 3 brackets per 10' to 12' gripper bar or 4 brackets per 14' gripper bar



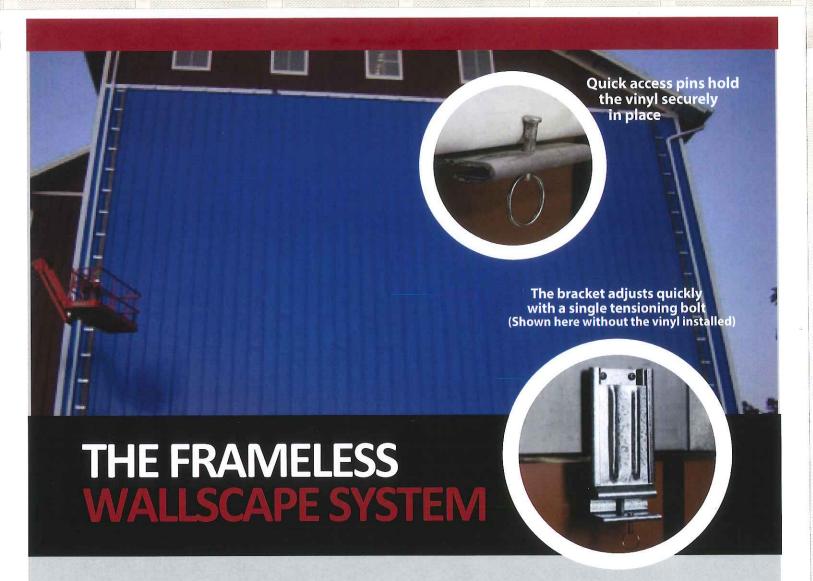
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* Anchoring bolts not included



The Formetco Frameless WallScape system is the most economical and ideal system available for interior and exterior wall mounted banner applications. And with Formetco's exclusive, FX Vinyl Tensioning Clips, small & large-format copy can be installed easily, safely and quickly. Copy as large as a 14'x48' can be stretched & secured; wrinkle free, over tensioning clips that are virtually out sight. The FX Vinyl Tensioning Clips are made of heavy-duty galvanized metal for superior weather durability. Our Frameless system can be ordered to accommodate any standard or custom sized wall mounted banner.

- · Flexible, easy to install, wall mount system that can be installed onto a variety surfaces
- Extreme low profile at only 1" when mounted
- · Fully adjustable for under or oversized small and large-format copy
- Copy is easily tensioned from the sides and stretched tight using our exclusive FX Vinyl Tensioning Clips
- Copy is finished with pole pockets and can be quickly and easily changed out with just a
 push or pull of a pin and a cordless drill
- Made of high quality galvanized steel for years of outdoor longevity
- Eliminates the use of ratchet straps, grommets, cables, and bungee cords

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