

# 14' X 48' HURRICANE FRAME BY FORMETCO FOR WOOD STRINGERS



## CLAMP-ON STYLE BACK VIEW OF STRUCTURE

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES  
FRACTIONAL ± 1/16"  
ANGULAR BEND ± 2°



2963 Pleasant Hill Road  
Duluth, GA 30096

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	MATERIAL FINISH	VARIED	10/13/2016 8:46:48 AM			<b>B</b>		
	DO NOT SCALE DRAWING	UPDATED	Monday, October 1, 2018 3:36:36 PM			WEIGHT:	SHEET 1 OF 2	

**Wood Stringer Hurricane Frame Assembly Instructions:**

**Step 1.** Assemble the top & bottom frame pieces so they form several easy to lift sections.

**Step 2.** Bolt several frame brackets to each top & bottom frame section using 3/8"x1" carriage bolts and nuts. Be sure to position the brackets so that they don't line up with any of the wood poles. See drawing for details.

**Step 3.** Assemble the left and right side frames by installing the frame brackets.

**Step 4.** Install the top frame sections. Using a crane, lift one section at a time and position slightly above the top wood stringer. Clamp the top frame brackets to the wood stringer using the clamping flat-plates and z-plates. Install the clamping plates loosely on the inside of the frame brackets (the z-plates should be on the front and the flat-plates should be on the back) with (2) 1/2"x1.5" carriage bolts and nuts. Once the plates are sandwiched over the wood stringer install (1) 1/2" x 3" carriage bolt & nut into the bottom of the plates and tighten until snug. Be sure to install the bolts so that all the nuts are on the backside of the frame and frame brackets. Leave all of the clamping plates loose until all 4 sides of the Hurricane Frame have been installed. However, be sure to tighten all the bolts joining the frame sections together.

**Step 5.** Install the left side frame section by repeating the process of step 4 for clamping onto the wood stringer. However, on the side brackets the z-plate should be installed on the back side and the flat-plate installed on the front side, opposite of the top and bottom frame plates. This is because the vertical wood stringers on the left and right sides are mounted on the back sides of the horizontal wood stringers causing an offset of the frame sections. The plates have to be arranged in the opposite order of the top & bottom frame plates in order to allow the side frame sections to meet flush with the top & bottom frame sections.

**Step 6.** Install the bottom frame section by repeating the process of step 4 for clamping onto the wood stringer.

**Step 7.** Install the right side frame section by repeating the process of step 4 for clamping onto the wood stringer.

**Step 8.** Lastly square the frame by measuring top to bottom, left to right and from corner to opposite corner. Finish by tightening all of the clamping plates onto to the wood stingers. Start with the top frame section first, next the bottom frame section and then the left and right side frame sections.

**Approximate Installation Time:**

Depending on the crew size of the installers and if the wood stringers are pre-installed onto the wood poles; the approximate install time should be about 4 hours or less.

**Helpful Note:** The clamping flat-plates and z-plates can be installed in 4 different positions onto the bracket. These different positions allow for a 1-1/2" offset or can be used for keeping the frame flush or even down the full length of the sign should some of the wood stringers bow in and out due to warped/crooked wood poles. For severely misaligned wood poles, optional spacing plates and longer 1/2" bolts can be purchased separately for keeping the Hurricane Frame flush and even. When installing and squaring the bottom frame sections it may be helpful to use heavy duty ratchets straps to hold the frame section in place or for raising and lowering the frame sections.

**Important Structural Note:** Be sure that all horizontal wood stringers are properly secured to the wood poles with metal strapping and that the vertical wood stringers are properly secured to the horizontal wood stringers. Optional 12ga. Galvanized Stinger Straps and Stainless Steel Banding are available through Formetco.

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