

## **Temperature Cable Support Packages For Eave Heights Of 40'-5" Or Less (12.32m) Written Installation Instructions**

### **CRP-5423 (27 ft. -33 ft. (8.23 M-10.06 M) Support System) & CRP-5424 (36 ft.-42 ft. (10.97 M-12.80 M) Support System)**

- 1.) All 27 ft.-42 ft. (8.23 M-12.80 M) packages shall span 1 roof panel as shown in Detail #9.
- 2.) A rafter support system (included in each package) will be necessary for temperature cable installation in farm tanks 27 ft. (8.23 M) to 42 ft. (12.80 M) in diameters that have an eave height less than 40'-4" (12.29 M).
- 3.) One package should be provided for each cable in the tank with the exception of the center cable.
- 4.) All packages include hanging angles and a cable support channel.
- 5.) Each set of rafters should carry only one temperature cable.
- 6.) Kit CRP-5424 contains two rafter sections which splice together with CRP-5262. Kit CRP-5423 contains only 1 rafter section.
- 7.) (CRP-5424 ONLY) Center the support angles on the outside of the rafter and field drill the holes to bolt the support angle (CRP-5422 (36 ft.-42 ft. (10.97 M-12.80 M)) to the roof rafter (See Detail #12 to locate which holes to drill) and attach with 3/8" dia. bolts.
- 8.) (CRP-5424 ONLY) Should the angle location be such that the rafter splice coincides with angle placement, the angle should be slid one way enough to align the angle holes with the splice bolts or miss the splice bolts. (If angle is to be bolted over splice, remove splice plate before installing angle.)
- 9.) Once the rafters are in place, field drill the holes to bolt the support angles (CRP-5243 or CRP-5187) into the roof rafter (see Detail #10) and attach with 3/8" dia. bolts.
- 10.) Attach the cable attachment bracket (CRP-5213) in the center of the support channel (CRP-5419) as illustrated in Details #9 & #11, and hang the cable.
- 11.) If it is desired to support the cable from the flange of the support channel (CRP-5419), it will be necessary to reinforce the flange with a 12" section of 3" x 3" x 3/16" angle.
- 12.) No more than one cable should be supported from a pair of roof rafters.
- 13.) This package will allow a maximum radius of: (27' equals 11.84') (8.23M equals 3.61 M), (30' equals 13.15') (9.14 M equals 4.01 M), (33' equals 14.00') (10.06 M equals 4.27 M), (36' equals 15.29') (10.97 M equals 4.66 M), (42' equals 17.84') (12.80 M equals 5.44M). These radii represent the maximum radius that the cross members will span. These are not recommended installation locations. Install according to the temperature cable manufacturers recommendations. For a greater radius, the recommendation shown in this manual for temperature cable installation must be used (using field cut, hot rolled sections), however a rafter support package must still be used.

**27 Ft. - 42 Ft. Roof Truss Details**

