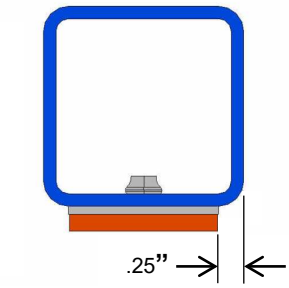
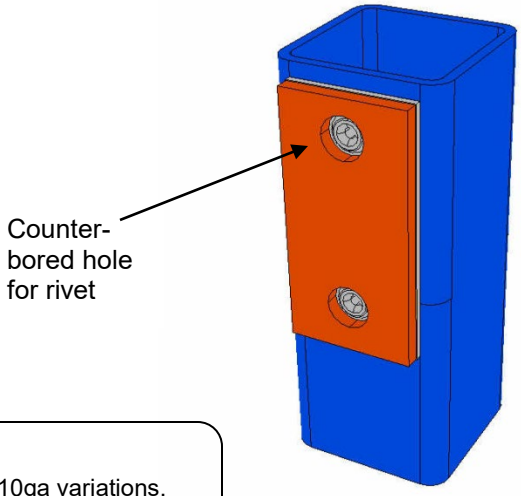
Guide for utilization of flat Vinyl Coated Steel material mounted to flat steel substrates (tubing, angle iron, flat bar, etc.)

Preventing Edge Overhang

Because of the radius on the corners of rectangular tubing, the size of the Vinyl Coated Steel should be located .25” off of each edge in order to prevent the steel edge from protruding beyond the radius.





Pop-rivet method of attachment

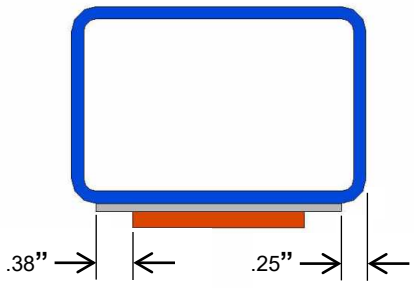
Steel Thickness

Vinyl Coated Steel (VCS) material is normally stocked in 14ga, 12ga, and 10ga variations. While the steel thickness changes, all standard* material is .250” from the bottom of the steel to the top of the coating. Therefore, VCS with thinner steel backing will have a thicker vinyl coating. For applications where flat VCS material is fastened onto flat steel substrates, 14ga VCS material is the maximum steel thickness recommended unless tack welding is used.

Reasons:

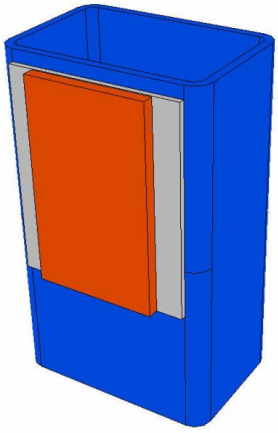
- These applications do not require the added strength of thicker steel backing.
- Thinner steel results in thicker cushion coating and more coating above the fastener head.
- VCS material with thinner steel backing is more economical than the thicker steel options.
- Thinner steel material is less likely to have a pronounced steel edge on one side from shearing.

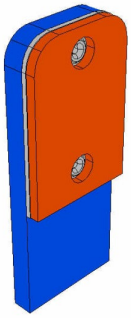
* Other made-to-order coating thicknesses are available upon request.



Welding Flat Pieces

Vinyl Coated Steel can be tack welded onto steel structures. It is recommended that .38” of vinyl coating be removed along the edges where the tack welds will be placed. This is to avoid over heating the coating and compromising the bond between the vinyl coating and the steel backing. We can remove the material per specifications. For tack welding, 12ga steel is the minimum steel thickness recommended.





Rounded Corners

In order to avoid sharp corners in applications where it could cause problems, the Vinyl Coated Steel material can be provided with rounded corners. A typical corner radius would be .50”.