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Post Hot Dip Galvanized Steel

Hot Dip Galvanized Truss

Hot Dip Galvanizing pipe after fabrication completely coats the inside and outside of the truss after welding. There is no burning off of the galvanizing as is the case with welding pre-galvanized steel into trusses.

Pre-Galvanized Finish

The above picture demonstrates that welding Pre-Galvanized pipe burns off the galvanizing on the inside of the pipe. This burnt off galvanizing is never seen by the customer and is hidden in the pipe only to rust and corrode silently.

Pre-Galvanized Finish

This section of pre-galvanized pipe, shown above, had been exposed to outdoor elements for 13 months. You'll notice the rust that's already formed with no salt in sight!

Clear Heights Construction, LLC has researched different methods for finishing of metal trusses. We have researched Powder coating, pre-galvanized steel, and Hot Dip Galvanizing. In our research, the benefits of Hot Dip Galvanizing outweighed the benefits of alternative finishing:

- Every part of a galvanized article is protected, both inside and out. No other coating provides the same protection.
- No other coating applied to a structure after completion can provide the level of protection achieved by hot dip galvanizing.
- Hot dip galvanizing provides lifelong corrosion protection for steel.
- The reaction of molten zinc with the steel during the hot dip galvanizing process results in a coating that is metallurgically bonded to the steel. Zinc grows onto the steel surface to create zinc-iron alloy layers that are harder than the underlying steel.
- Zinc galvanized coatings corrode preferentially to steel, providing cathodic or sacrificial protection should any small areas of steel become exposed through damage in building erection or transit.

Superior Hot Dip Galvanizing Post Welding

HDG After Fabrication Galvanized Inside and Out 100%

Completed Hot Dip Galvanized Atlas Trusses

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The Differences in **Steel Production**

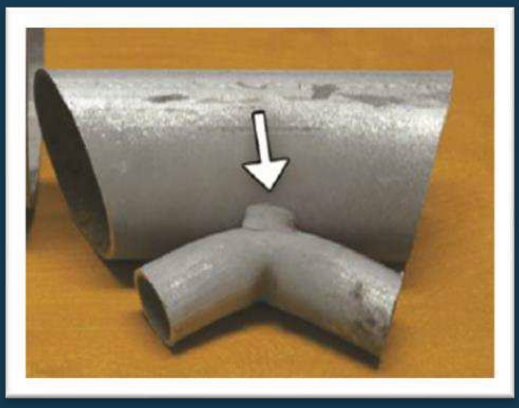
Pre-Galvanized Finish

Hot Dip Galvanized Post Production

Completely Galvanized at weld point (Hot-Dip Galvanization)

Hot dip galvanized steel is received as raw steel pipe. It's then formed to it's desired shape and Welded. Next, it's fully submerged in a vat of molten zinc which coats both the INSIDE and OUTSIDE of the pipe. This process provides the longest life for your steel truss framework. Pre-Galvanized steel is received with the galvanizing already applied to the outside of the pipe along with an organic coating to the inside. Then it's bent to its desired shape and the galvanized finish Is ground off at the future welding points. After the welding process is complete, the product is sprayed with a zinc rich paint to cover the welds on the outside only while leaving the inside of the pipe compromised.

Galvanization is spray painted at weld points (Pre-Galvanized Finish)



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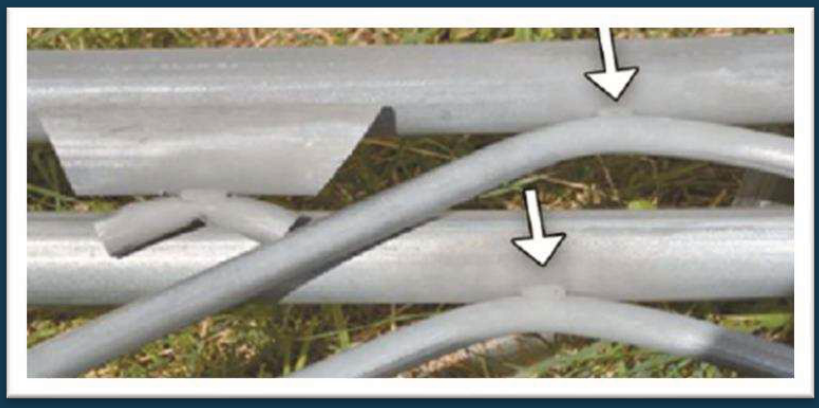

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