



Connecticut Galvanizing

CUSTOM HOT DIP GALVANIZING

Protecting Steel for Generations

- Immediate quotations with competitive pricing
- Excellent turn time
- Kettle size of 30' 6" long x 5' wide x 7' 6" deep
- Handle material up to 52' long
- Galvanizing done to ASTM specifications
- Top quality workmanship
- Value added services – packaging, assembly, etc.
- Centrally located in greater Hartford area with easy access to all major highways (Routes 2, 17, 84 and 91)
- In-house shipping department
- Full technical services
- Specification reviews
- Design and fabrication recommendations
- Seminars and educational programs

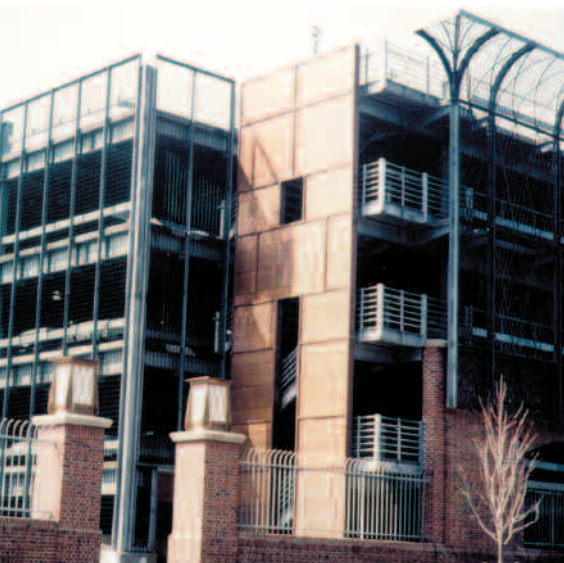
Connecticut Galvanizing

Service, Quality, Dependability

HOT DIP GALVANIZING

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Cost effective, proven results method to control corrosion



The advantages of hot dip galvanizing:

- **Surface coverage** — The product is completely covered, including areas inaccessible to brush and spray processes.
- **Metallurgical bond** — Galvanizing is not a coating, like paint. It forms a metallurgical bond between the zinc and underlying steel creating a barrier that is part of the metal itself.
- **Resists handling damage** — Hardness, ductility and adherence combine to provide the galvanized coating with unmatched protection against damage caused by rough handling during transportation to and at the job site, as well as in service.
- **Thicker coating on corners and edges** — The galvanizing process naturally produces coatings that are at least as thick at the corners and edges as the coatings on the rest of the work piece. As coating damage is most likely to occur at the corners and edges, this is where added protection is needed most. Paint and other brush or spray applied coatings have a natural tendency to thin at the corners and edges.
- **Coating is anodic base metal** — Cathodic action allows zinc coating to sacrifice itself to protect exposed steel. Cut edges, drill holes or abrasion on impact remain rust free. The surface “heals itself.”





HOW DO YOU GALVANIZE?

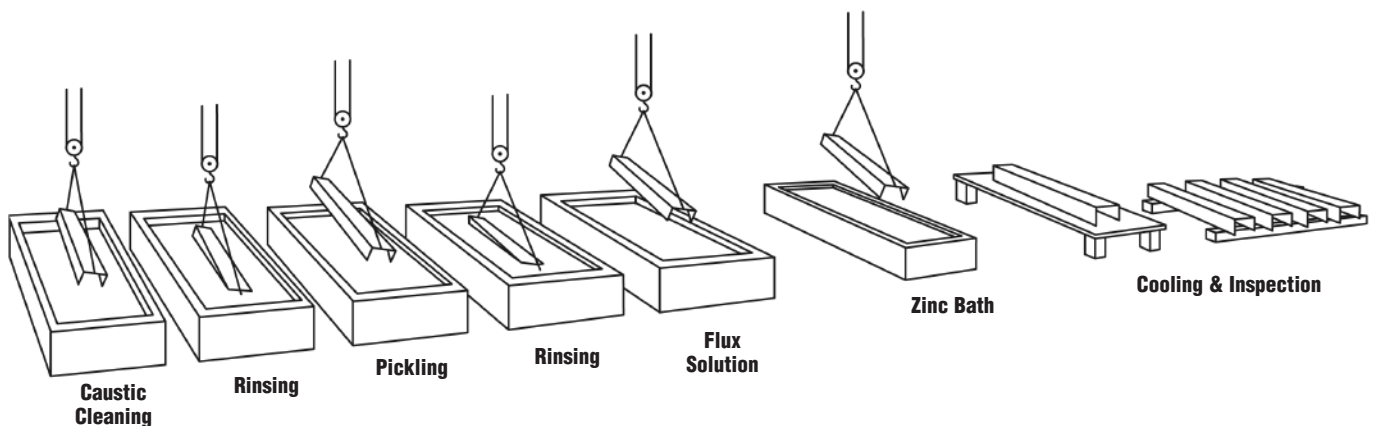
The galvanizing process consists of three basic steps: surface preparation, galvanizing and inspection.



Surface preparation insures that the zinc will react properly with the steel. The preparation starts with caustic cleaning to remove organic contaminants such as dirt, grease and oil. Pickling then removes scale and rust followed by fluxing which removes oxides and prevents further oxides from forming on the surface of the steel. It also promotes bonding of the zinc to the steel surface.

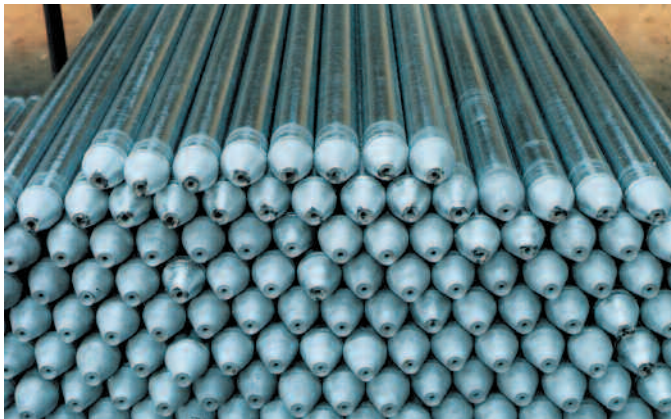
Galvanizing consists of immersing the steel in a kettle of molten zinc at a temperature of 850°. The time of immersion is determined by the dimensions and chemistry of the steel being galvanized.

Inspection is performed after the product is cooled, after removal from the zinc bath. The two properties of the hot dip galvanizing coating that are closely inspected after galvanizing are coating thickness and coating appearance. Products are galvanized to long-established, well-accepted and approved standards of the ASTM, the Canadian Standard (CSA) and the American Association of State Highway and Transportation Officials (AASHTO).





GALLERY OF GALVANIZED PRODUCTS



Connecticut
Galvanizing

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