

# ZINC FOR THE LONG HAUL



**On the long road ahead -  
Galvanizing Goes the Distance**

It's a tough world out there – high speed highways, harsh environments, less than ideal transportation conditions. Our fast paced world demands performance . . . reliable, cost-effective performance. Your challenge is to deliver your goods to market. Your customers won't take excuses. So how do you make your transportation last for the long haul?

Do what many owners, designers and engineers are doing. Specify hot dip galvanizing for road vans and box trailers, for boat trailers and ocean cargo vehicles. Galvanizing insures long life and low maintenance. Over the long haul it's one of the most economical solutions available. It will get your vehicles where they need to go – longer!

## HOW GALVANIZING WORKS

The excellent corrosion resistance of hot dip galvanized steel is due to the twofold nature of the coating. The zinc coating provides barrier and cathodic protection to the underlying steel surface.

During the galvanizing process, steel reacts with molten zinc to form a series of zinc-iron alloy layers which, together with the outer zinc layer, are metallurgically bonded to the steel surface. The resulting barrier coating has a very low corrosion rate and, because the alloy layers are harder than the underlying steel, is highly resistant to mechanical damage. Therefore, galvanized steel is much less susceptible to coating damage from handling than is painted steel.

Each galvanized structure requires complete immersion in molten zinc. This process ensures a uniform coating on all surfaces even on those areas not normally accessible to mechanical applicators.



**Zinc Coating**



**Paint Coating**

The sacrificial nature of zinc prevents the steel from corroding adjacent to the galvanized coating, thus preventing under-cutting and blistering of the protective film. In comparison, exposed steel on painted surfaces will corrode immediately.



# Count on The Strength & Dependability of Hot Dip Galvanizing

## ...on the rails...over the road...recreation, utility...under body....

Hot dip galvanized coatings are specifically designed to withstand the corrosive environments encountered on our nations transportation routes.

Rail car manufacturers and refurbishers specify hot dip galvanizing to lengthen car life and eliminate maintenance costs. Chock systems using hot dip galvanized grating minimize vehicle damage during transportation.



Sand and gravel haulers find galvanized coated trailers cost effective because they can resist the abrasive nature of the products that are transported.

Traditionally, the marine environment has presented one of the harshest conditions for steel structures. To combat these hostile conditions, the boat trailer and ocean going cargo industries utilize hot dip galvanizing to insure long life and low maintenance on their vehicles, loading and storage equipment.

Hot dip galvanized tanks are ideal for use by septic waste haulers; for water transport and for transport of a variety of farm products.



Photo By: Adam Ledlow

Owners, designers and engineers are opting to use hot dip galvanizing in critical structural support members on intermodal and over the road vans. Structural integrity of cross sills, rear walls and corner covers is greatly enhanced by the rugged zinc coating. Other parts getting constant use – lock rods, handles and hinges – are also hot dip galvanized.

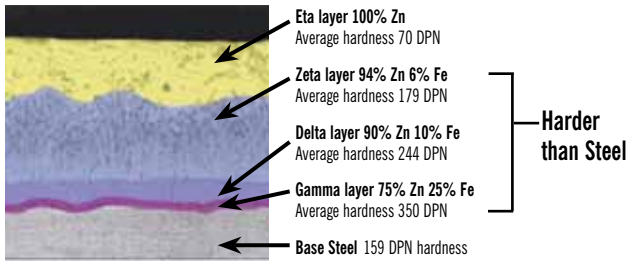
Complete trailers up to 53 ft. are now being hot dip galvanized in our kettle at Court Galvanizing. This kettle is large enough to immerse the entire trailer in molten zinc for complete protection beyond compare.

For these industries and many others, galvanized steel offers a low cost – high performance solution which increases the integrity and life of critical operational components.

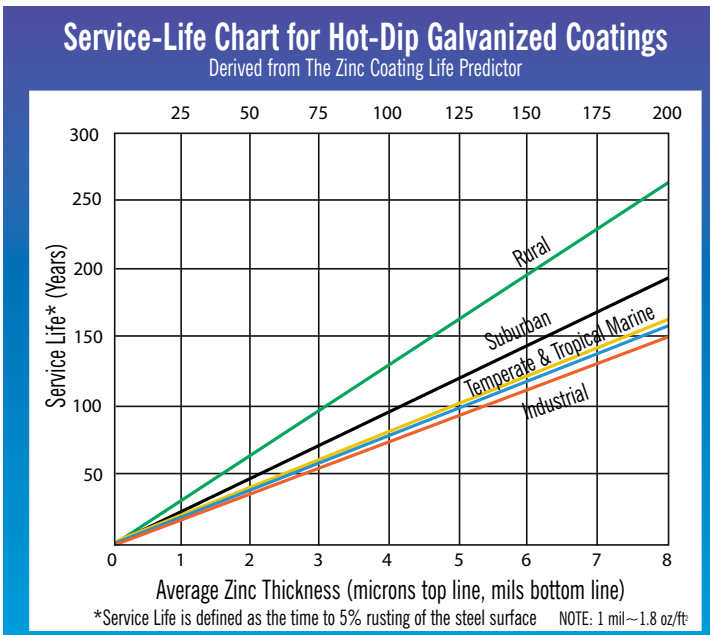


# THE RESULTS

## PHOTOMICROGRAPH OF GALVANIZED COATING (coloured to show detail)



## LIFE OF PROTECTION VS. THICKNESS OF ZINC AND TYPE OF ATMOSPHERE



## MAINTENANCE FREE DURABILITY

Hot dip galvanizing has proven itself as a protective coating that stands the test of time. In today's environment, galvanizing is the preferred choice for exceptional maintenance-free service life. Zinc continues to prove itself on the long haul by demonstrating that galvanizing is an effective, economical means of achieving long-term corrosion protection. Specify hot dip galvanizing to beat corrosion for the long haul!

# COURT

## GALVANIZING LTD.

225 Thompson Drive, Cambridge, Ontario N1T 2B9  
Telephone: 519-624-5544 Fax: 519-624-6091

Toll Free: 1-800-265-9390

**KETTLE SIZE: 55 ft. x 8 ft. x 11.5 ft. deep**



**Cost Effective.**

**Knowledgeable.**

**Customer Responsive.**

**Quality Conscious.**

**Environmentally Friendly.**

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ISO 9001:2000 Quality System

Providing Hot Dip Galvanizing for our Customers Since 1960