

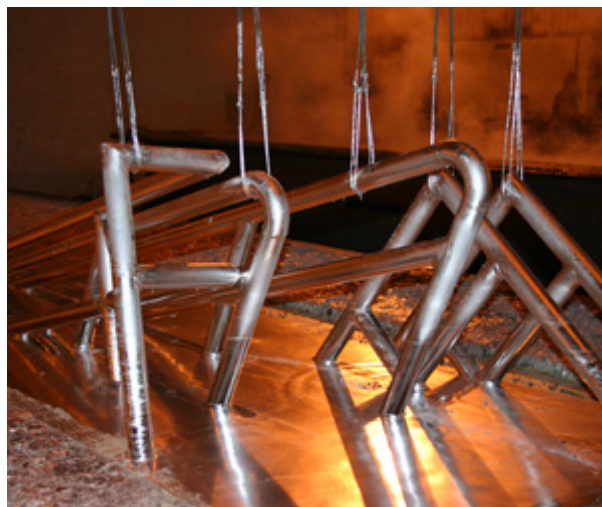
# Highland Galvanizers & Powder Coaters, Elgin



Galvanizing and powder coating are ways of protecting and colouring metals such as steel.

Highland Galvanizers have been providing metallic colouring and protection since 1973. But where Highland Galvanizers is set apart is there solution to the problem that galvanizing presents, it only comes in one colour.

Galvanizing is widely used on metals when rust resistance is required. The metal is sent to their factory where it is chemically cleaned then dipped in molten zinc (around 450° C) which when exposed to the atmosphere, the pure zinc (Zn) reacts with Oxygen to form Zinc Oxide (ZnO), which reacts in turn with Carbon Dioxide to form Zinc Carbonate (ZnCO<sub>3</sub>). Highland Galvanizers also have a unique "Colourgalv" technique which powder coats the galvanised metal.



In 2002 Highland Galvanizers opened a second factory in England due to demand and now employ two full industrial factories worth of people. The market is very large with any company or industry needing rust resistance, from automobile parts to hand rails.

By Callum Jack, Class 3G, Lossiemouth High School, 5/9/11

