



# HOT DIPPED GALVANIZED STEEL

## ABOUT HOT DIPPING

Hot-dip galvanizing is the process of coating fabricated steel by immersing it in a bath of molten zinc.

The steel and the zinc bond extremely well. This bond creates a barrier between the steel and the environment where the galvanized coating sacrifices itself to protect the underlying base steel from corrosion.

## CORROSION

Extremely abrasion-resistant, as the inter-metallic zinc layers are harder than the base steel. However, even if the coating is damaged, zincs sacrificial action will protect exposed steel up to 1/4 inch away.

## SUSTAINABILITY CLASSIFICATIONS

Both zinc and steel are infinitely recyclable without the loss of any physical or chemical properties. This means rather than being down-cycled into other products or uses, zinc and steel can be used as zinc and steel again and again, without compromising their integrity. Therefore, when considering the life-cycle assessment (LCA) of hot-dip galvanized steel, it is a cradle-to-cradle product, as there is essentially no "grave" to the zinc or steel.