

# CORROSION PROTECTION

## Corrosion prevention – Anti-corrosion techniques

In the case of metals, corrosion is most often accompanied by rust, which is a reddish tarnish that can turn to powder over time. It is formed by the oxidation process of iron and its alloys, such as steel. Today, corrosion of metals is recognised as one of the most damaging factors for structural materials. Our own hot-dip galvanising plant or paint shop are assets that allow us to offer a comprehensive service with full supervision of each stage of the production process, optimising costs and lead times.

The best way to prevent corrosion of metals is through various types of industrial anti-corrosion techniques, namely the use of coatings such as:



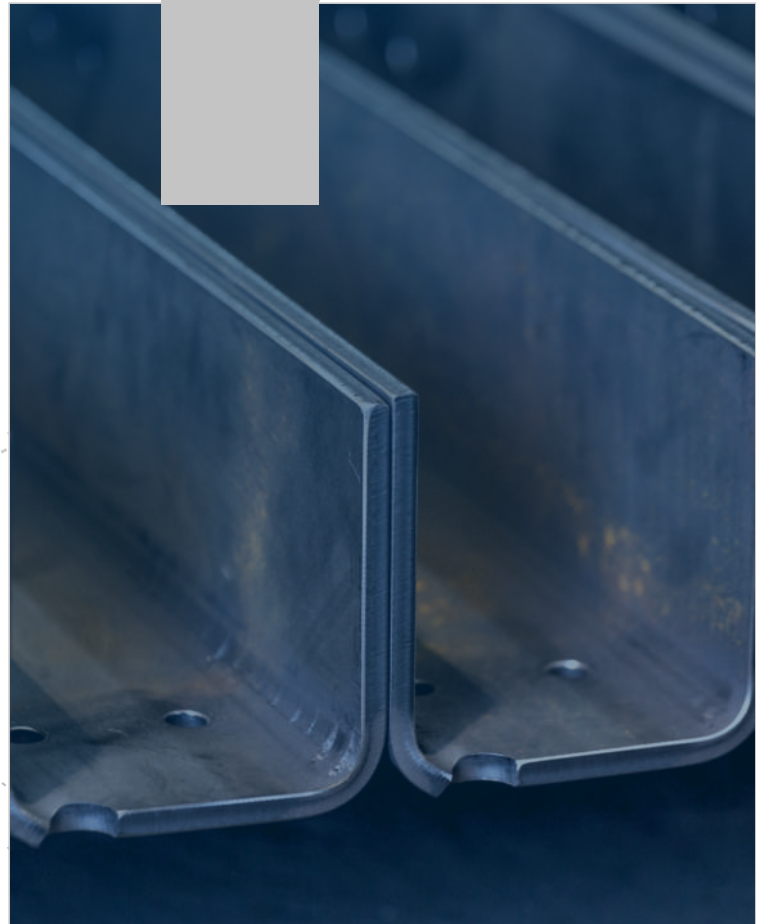
HOT DIP GALVANIZING



POWDER COATING



WET PAINTING



MABO The power of quality

## METAL SURFACE PREPARATION PROCESS

### Metal blasting / shot blasting

Metal blasting is a process also known as sandblasting. It is performed to remove rust and mill scale from the surface of the metal and to obtain a suitable surface roughness. Shotblasting prepares surfaces for painting, galvanising or other processes, thus ensuring the durability of subsequent processes.



## HOT DIP GALVANIZING

Hot-dip galvanisation gives valuable, long-lasting and robust protection against corrosion. This method is recognised worldwide as the cheapest, most effective and most popular way to combat corrosion without altering the properties of the steel. We galvanise according to EN ISO 1461.

Our furnace can galvanise components with a maximum size of 6.0 m x 2.0 m x 1.25 m and a component weight of no more than 800 kg.



## POWDER COATING

Powder coating and the coating achieved by this method of painting provide a guarantee of high aesthetics, mechanical strength, and resistance to solar UV radiation and atmospheric conditions. The effectiveness of this form of painting has been confirmed by tests in accordance with DIN 50021.



## HYDRODYNAMIC PAINTING (Wet)

This type of painting of steel surfaces produces a perfectly smooth texture and guarantees a high quality finish. The greatest advantage of this method is the high painting efficiency, it also saves on painting materials, it produces a proper coating of painting materials and there is considerably less dust and solvent vapour concentration.

