

HOT-DIP GALVANIZING

GRUPO PROJEART



Discover ProZinco. The New Standard for Galvanizing in Brazil.

Building on the Projeart Group's more than 30 years of experience in customized steel solutions for the industrial, logistics, and infrastructure sectors, ProZinco opened one of Brazil's largest and most advanced hot-dip galvanizing plants, setting a new benchmark for technology, quality, and production capacity in Brazil.

Strategically located in Eusébio, just a few kilometers from the Port of Pecém, ProZinco is positioned to serve regional, national, and international markets, expanding the company's logistics reach, reducing transportation costs for large-scale projects, and enabling export operations.

ProZinco delivers to the market:

- Long-term protection lasting for decades
- Production capacity of up to 5,000 metric tons per month
- Significant reductions in maintenance and operating costs
- Superior performance in the energy, logistics, agribusiness, infrastructure, and telecommunications sectors
- Automated processes
- Rigorous inspection protocols

All of this is supported by an environmental commitment that is already part of the brand's DNA: zinc residue recovery and reuse, closed-loop water systems, strict emissions control, and high energy efficiency.

We continue to deliver trust, quality, and agility. Every customer is unique, which is why we offer customized solutions, specialized service, and technical rigor aligned with the highest international galvanizing standards.

Doing things right is more than a motto; it is the essence of what drives us.

The Hot-Dip Galvanizing Plant in Northeastern Brazil

Technology, capacity, and reliability
to meet large-scale industrial demands.



Versatility for Large Structures

Large-scale steel structures, carbon steel, and various components for the industrial, energy, logistics, and infrastructure sectors.

High-Volume Production for Large-Scale Projects

- Complete production line for components of different dimensions
- Continuous, high-precision processes

Galvanizing Technology That Raises Industry Standards

- Hot-dip galvanizing (immersion in molten zinc)
- Duplex System (zinc + paint) for maximum service life
- Automated control of temperature, immersion, and withdrawal
- Rigorous quality standards at every stage
- International standards for corrosion protection performance



Hot-Dip Galvanizing:
Extreme Protection for Up to 120 Years

Durability, resistance, and performance
far superior to conventional industrial painting solutions.

- Electrochemical protection + physical barrier
- Maximum resistance to corrosion, impact, and weathering
- Service life of 70 to 120 years, with no need for repainting
- Virtually no maintenance required (extremely low cost)
- Ideal for aggressive environments and exposed structures

Duplex System:
The Perfect Combination of Zinc + Paint

The highest level of corrosion protection on the market.

- Two layers of protection: zinc + coating
- Service life of **70 to 120 years**
- Customizable appearance in any color
- High UV resistance
- Best life-cycle cost among all systems
- Ideal for extreme, marine, or industrial environments



Efficiency That Reduces Costs and Extends the Service Life of Your Project

Less maintenance, greater safety, and improved predictability.

Stages of the Galvanizing Process

Degreasing (NaOH)	Water Rinsing	Pickling (HCl)	Water Rinsing	Fluxing ($ZnCl_2$ and NH_4Cl) To reduce surface tension and improve wettability.	Drying	Molten Zinc Bath (450°C)	Cooling Tank	Passivation (Chromating Solution)

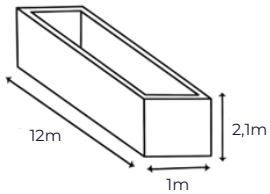
Eta Layer – 100% Zinc

Zeta Layer – (93.7 – 94.3% Zn)

Delta Layer – (89–93% Zn)

Gamma Layer – (75% Zn, 25% Fe)

Base Steel



Usable Immersion Dimensions:
Length: 12 m
Width: 1 m
Height: 2.1 m
Maximum Part Weight: 3,500 kg



Why Does ProZinco Make a Difference?

- Significant long-term savings
- Continuous protection, even with surface scratches
- Excellent performance in structures subjected to impact
- Stability and quality controlled through automated processes



Sustainability
as an Industrial Pillar

A modern, clean, and responsible process.

- Full recovery and reuse of zinc residues
- Closed-loop water system with no discharge
- Strict control of emissions and fumes
- High energy efficiency at every stage
- 100% recyclable zinc


RESFRIAMENTO





GRUPO
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