

## Porcelain Enamel Sign Boards

Premium Long-Lasting Maintenance-Free

### Key Features

- ▶ High-Temperature Firing (900°C): Permanent glass coating on steel.
- ▶ 45–60+ Years Life: Outlasts paint & vinyl by 5-7 times.
- ▶ Fade Resistant: Bright colors never fade in sun/UV.
- ▶ Scratch & Chemical Proof: Easy to clean, graffiti removable.
- ▶ Glossy & Attractive: Always looks premium & new.
- ▶ Eco-Friendly: Recyclable, safe & non-toxic.

### Weather & Durability

- ▶ 100% Weatherproof: Rain, sun, snow, humidity resistant.
- ▶ Saltwater Resistant: No rusting, peeling or blistering, even in coastal/marine areas.
- ▶ Fire-Safe: Non-combustible, suitable for railway tunnels & stations.
- ▶ Low Maintenance: Just simple cleaning, no repainting.

### Desert Applications (Saudi Arabia)

- ▶ Specially designed to withstand Saudi desert's extreme heat and UV rays.
- ▶ Fade-proof colors: Stay bright even under intense sunlight
- ▶ Resistant to sand, dust, and hot winds during sandstorms.
- ▶ No cracking, peeling, or rusting in dry desert climate and 45–60+ years lifespan ensures long-term durability in desert conditions.

### Railway Applications

- ▶ Used in stations, platforms & metro projects for name boards, route signs, and safety signs.
- ▶ Resistant to vibration, dust & oil exposure in crowded railway environments.
- ▶ Fire-safe and compliant with railway safety standards, ideal for tunnels & stations.
- ▶ 50+ years lifespan reduces replacement costs for large railway networks.

### Coastal Applications

- ▶ Glass coating prevents corrosion from salty air, humidity & sea spray.
- ▶ Perfect for ports, harbors, bridges & coastal highways.
- ▶ Colors stay bright for decades under sunlight & harsh marine conditions.

### Unique Properties of Enamel

- ▶ Glass Fused to Steel: Permanent glass layer fused at 900°C makes it toughest.
- ▶ Everlasting Shine: Glossy finish never turns dull even after decades.
- ▶ Graffiti & Stain Proof: Resistant to paint, markers & acids – easy to clean.
- ▶ Color Brilliance: Deep, rich, premium look compared to ordinary boards.
- ▶ Non-Porous Surface: Dirt, dust & chemicals cannot penetrate.
- ▶ Heritage Value: Used in heritage railways & iconic metro stations worldwide.
- ▶ Temperature Resistant: Withstands -40°C to +650°C without cracking or fading.
- ▶ Luxury & Trust: Premium signage for high-value projects.

"Porcelain Enamel sign boards shine bright, resist time, weather, and wear—lasting beauty with unmatched durability."

## Advantages

- Stronger & longer life than paint/vinyl boards.
- No peeling, fading or rusting.
- Proven in Railways, Metros, Ports & Infrastructure projects.
- One-time investment decades of service.

Trusted Choice for Desert, Government, Railway & Coastal Projects

## This is how, it's Done.....



## Enamel Sign Technology

Enamel sign board technology is a traditional and highly durable signage method.

It starts with a metal sheet (usually steel or iron) that is cleaned and coated with a base layer. Then, colored powdered glass (enamel) is applied and fused onto the surface by heating it in a furnace at **700–900°C**.

The heat melts the enamel, creating a smooth, glossy, and glass-like surface that is resistant to rust, weather, chemicals, and fading. This makes enamel boards long-lasting and ideal for outdoor use, such as railway signs, street name boards, and vintage advertisements.

**Their shiny finish and classic look keep them popular even today.**