

Saumya Earthing Equipotential Busbar – Specification & Technical Details

Product Overview

Saumya Earthing Equipotential Busbars are designed to provide a reliable, low-resistance common earthing/grounding point for electrical panels, distribution boards, lightning protection systems, and industrial installations. Manufactured with high conductivity copper or aluminium, these busbars ensure safe dissipation of fault current and lightning surges into the earth.

Material Options

- High Conductivity Electrolytic Copper (EC Grade, 99.9% pure Cu)
- Aluminium (High Conductivity Alloy, optional as per requirement)

Technical Specifications

Parameter	Specification
Thickness	3 mm to 12 mm (customized as per load requirement)
Width	20 mm to 120 mm
Length	1 m / 2 m / 3 m (custom length available)
Current Carrying Capacity	100A – 1200A
Conductivity	Copper $\geq$ 99.9% IACS, Aluminium $\geq$ 61% IACS
Surface Finish	Plain / Tinned / Silver Plated
Mounting	Pre-drilled holes or customized drilling
Insulation	With or without epoxy/heat shrink covering

Standards & Compliance

- IS: 613 (Copper Busbars – Indian Standard)
- IEC 60439, IEC 61439 (LV Switchgear & Controlgear)
- RoHS Compliant (on request)

Applications

- Main Earthing / Grounding bar for electrical panels & switchboards
- Lightning protection system earthing termination
- Power distribution systems in industries & buildings
- UPS, Battery bank, Solar, and Data center grounding
- Neutral and Earth bonding

Advantages

- High conductivity for efficient current dissipation
- Mechanical robustness and long service life
- Corrosion resistance with tin/silver plating
- Customizable as per project requirement

- Ensures safety & compliance with international standards