

**TECHNICAL SPECIFICATION DOCUMENT (MATERIAL - EG)****MATERIAL DESCRIPTION**

Electrogalvanized (EG) steel is cold-rolled steel coated with a thin, uniform layer of zinc through an electroplating process using electric current. The coating provides a smooth, clean surface with excellent dimensional accuracy, paint adhesion, and suitability for powder coating. Unlike hot-dip galvanized steel, EG steel does not develop visible zinc spangles because the coating is deposited electrochemically rather than formed by solidification from molten zinc. Since the zinc layer is generally thinner than hot-dip galvanized coatings, EG steel offers moderate corrosion resistance and is mainly used for indoor applications such as electrical enclosures, appliances, automotive components, and precision sheet-metal fabrication.

MATERIAL & COMPONENT DESCRIPTION

- **Material Type: Electroplated Zinc Coating** (EG) Coated Steel Sheet
- **Coating Thickness:** 25–30 μm (typical coating thickness depending on AZ class)
- **Suitable Environment: C2** – High Corrosive Environment (Internal Fabrication)

TECHNICAL PROPERTIES – ELECTROGALVANIZED (EG)

Property	Typical Value / Description for EG Steel
Technical Name	Electrogalvanized (EG)
Market Name	Zinc Coated Sheet – (Z/C)
Thickness (Sheet)	0.7 / 0.8 / 1.0 / 1.2 / 1.4 / 1.5 / 2.0
Country of Origin	Korean
Sheet Size	1220 mm x 2440 mm (Standard)
Area per Sheet	2.977 m ²
Density (Base Steel)	7.85 g/cm ³
Tensile Strength	270 - 410 MPa
Yield Strength	140 - 280 MPa
Elongation	20% - 35%
Coating Type	Electroplated Zinc
Grade / Standard	ASTM A879, JIS G3313
Coating Mass	20 - 60 g/m ² (on both sides combined)
Coating Thickness	5 - 20 μm (Very thin and uniform)
Corrosion Resistance	Low to Medium (Best for indoor/dry conditions)
Chemical Composition (Base Steel)	C: $\leq 0.15\%$, Si: $\leq 0.05\%$, Mn: $\leq 0.60\%$, P: $\leq 0.035\%$, S: $\leq 0.035\%$
Surface Finish	Very smooth, plain/matte
Weldability	Excellent

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