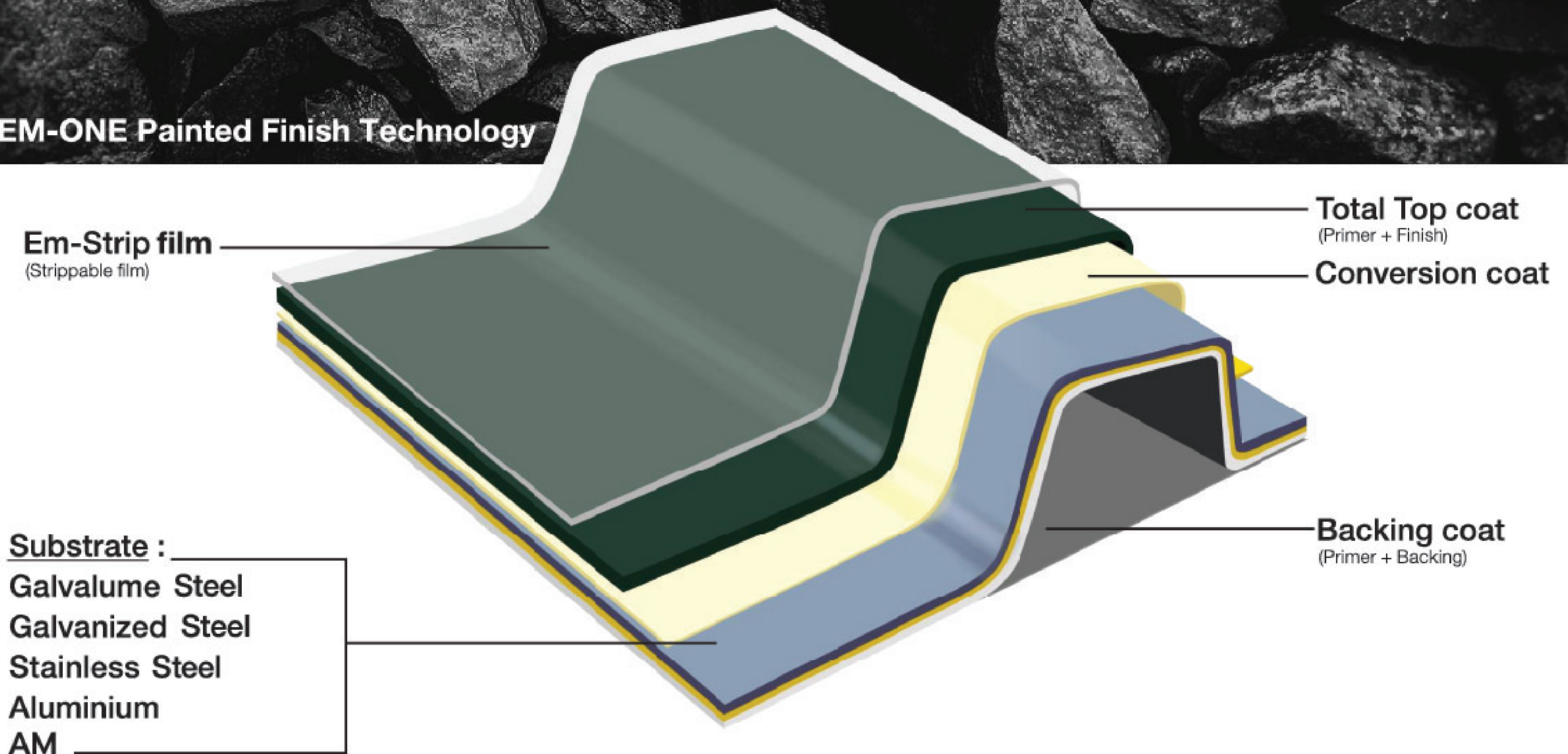


Pre-painted steel was developed by the Empower Steel using ultra modern production system paint technology called **SuperAdvance Durability Polyester(SADP)**, which contains pigments derived from “natural minerals” to increase its efficiency with greater durability in different environments.

EM-ONE incorporates auto clean technology to help the surface stay as new. Empower Steel has also designed an Em-Strip™ film to protect the steel surface from scratches during processing, transportation and product installation. With Solar Reflective technology, the colours are beautiful for longer. **EM-ONE** meets Australian industry standards requirements of AS2728.

EM-ONE Painted Finish Technology



Substrate	Galvalume Steel (AZ150, AM100, AM150) Galvanized Steel, Stainless Steel and Aluminium
Material Grade	G550 and G300
Surface Treatment	Chemical Conversion Coating
Top Coat	Paint system : Super Advance Durability Polyester* 20µm** Corrosion Inhibitive Primer 5µm**
Backing Coat	Paint system : Modified Polyester 5µm** Corrosion Inhibitive Primer 5µm**
Strippable Film	Em-Strip Film***
Base Metal Thickness (BMT)	0.20-1.20mm.
Width	940-1200mm. (Up to 1270mm.)

Solar Reflectance Technology

With a special formulation mixed in the paint to increase the solar reflectability, even dark shades are made easier for air-conditioning to keep the building cool.

Em-Strip Film

High quality clear film has been designed for Empower Steel products to prevent abrasion during fabrication, transportation and installation. So product's surface will be maintained as beautiful as new.
*** (As an optional)

Follow Industrial Standard

Properties	Test Method	Purpose	Standard
Dry film Thickness	Dry film Thickness Measurement	Paint Thickness	TIS 2753, ASTM D5796, AS/NZS 1580.108.1
Paint Film Hardness	Pencil Hardness	Hardness properties of paint layer	TIS 2753, ASTM D3363, JIS G3322
Paint Adhesion	Cross Cut	Adhesion between paint layer	TIS 2753, ASTM D3359-02, JIS G3322, AS1580.408.4
	T-bend	Colour adhesion and flexibility	TIS 2753, ASTM D4145, AS/NZS 2728 (App.F), JIS G3322
	DuPont impact	Colour adhesion and flexibility	TIS 2753, JIS G3322
	Reverse impact	Colour adhesion and flexibility	AS/NZS 2728 (App.E)
Gloss	60° Gloss meter	Colour gloss	ASTM D523, AS/NZS 1580.602.2
Corrosion resistance	Salt Spray Test (SST)	Corrosion resistant properties	TIS 2753, ASTM B117 AS/NZS 1580.408.4, 481.1.9, 481.3

Additional Product Qualification Tests

Properties	Test Method	Purpose	Standard
Weathering Resistance			
Chalking	QUV	Weather resistant properties	ASTM D4214 method D, AS/NZS 1580.481.1.11
Colour fading	QUV	Weather resistant properties	ASTM G154, ASTM D2244 AS/NZS 1580.601.4
Humidity resistance	QCT (Cleveland)	Relative humidity resistance properties	ASTM D4585 / D4585M, AS/NZS 1580.481.1.9
Solvent resistance	Mechanical Rubbing (MEK)	Dryness of paint	ASTM D5402 or D7835/ D7835M
Colour Shading	Light Source (Colour-Visual)	Colour difference	AS/NZS 1580.601.1
	Colour spectrophotometer (ΔE)	Colour deviation	ASTM D2244

Product Warranty

Product Warranty	Years
Perforation due to corrosion	35 years
Colour Peeling and Flake	15 years
Colour Fading and Chaking	8 years

Remark : The above table warranty for Australasia region only

- EM-ONE pre-painted steel products have a base metal thickness (BMT) not less than 0.42 mm Grade G550 and are metallic coated with 55% Aluminium-Zinc (AZ150) After paint thickness (APT) not less than 0.51 mm. Color : Unity Green****
- This product is not suitable for use in coastal areas less than 1 kilometer, areas with high corrosion, areas with water logged including applications that are buried in the ground, use in improper areas and non-standard installation affects the product warranty
(Please refer to the warranty document or contact customer service to detail)
- Protection film applied (Em-Strip™ Film) is intended for prevent scratches during transportation and installation. After installation should be peeled off. If left it long time the sunlight and heat can make it more difficult removal
- Finish coat means the top layer of product which is exposed to the external environment directly. This coating are applied by paints that quality meets the product warranty
- Improper storage or improper oil using of forming may affect to the color quality and long-term durability of product. Should be storage in dry place. In case of a part of product gets the wet or moist should be separated and dried immediately
- Product warranty is subject to the terms and conditions of the Empower Steel company only.

**Example of writing product specification for project work