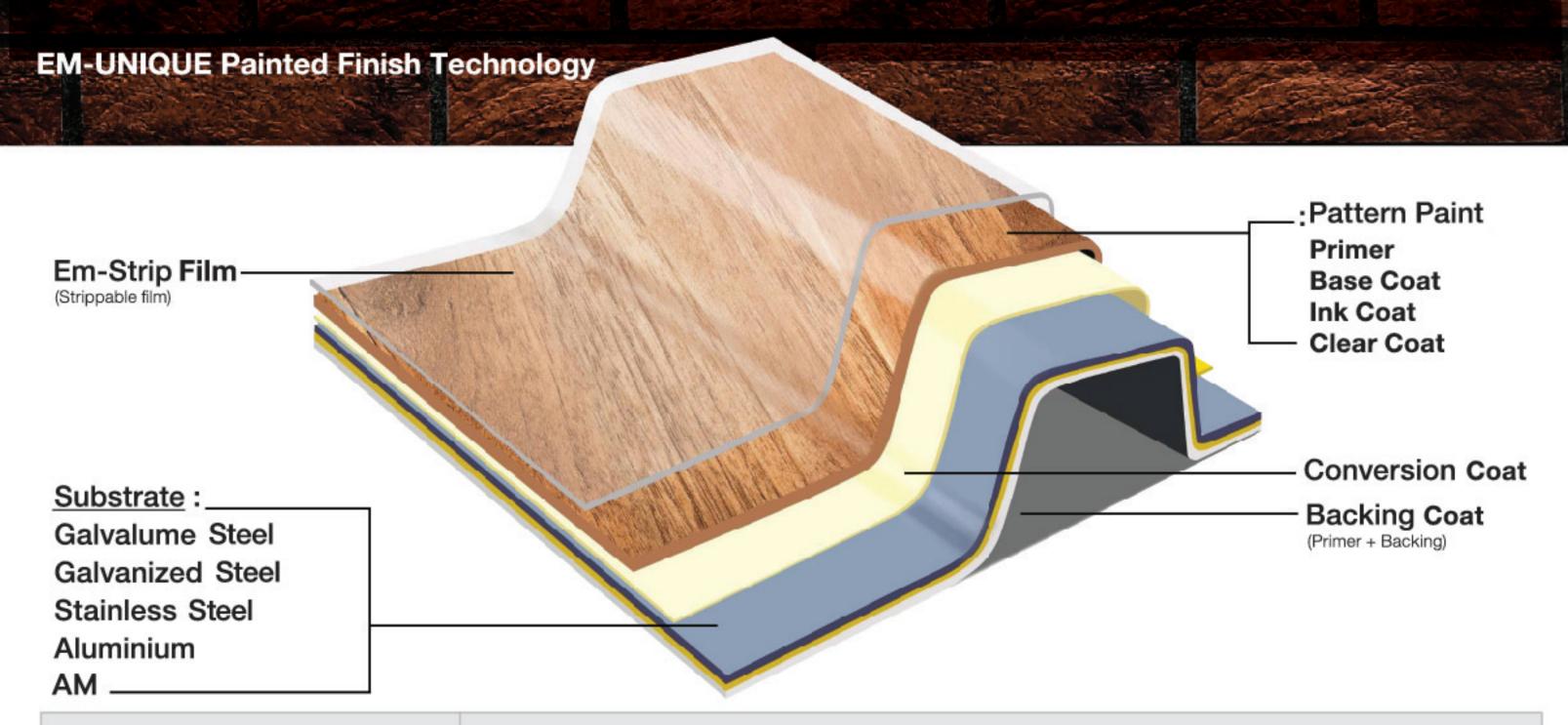
# EVEUNCIE®



**EM-UNIQUE** pattern painted steel utilises the most advanced manufacturing to create unique patterns and virtual textures. At the same time, we also have Em-Strip Film that will protect the steel surface from scratches during processing, transportation and product installation.

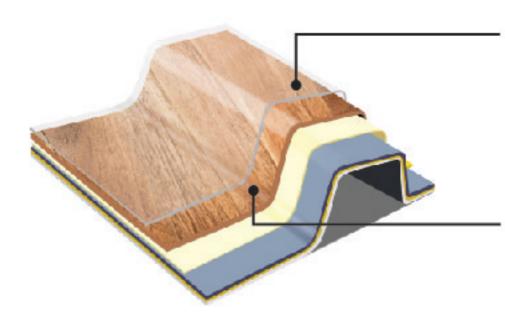
Empower Steel's innovative machinery can use various raw materials to coat multiple prints on the steel surface with high precision and quality. **EM-UNIQUE** meets industry standard requirements of AS 2728.



Substrate	Galvalume Steel (AZ150, AM 100, AM150) Galvanized Steel, Stainless Steel and Aluminium	
Material Grade	G550 and G300	
Surface Treatment	Chemical Conversion Coating	
Base Coat	Paint System : PVDF or Advance Durability Polyester 15 μm <sup>*</sup> , Corrosion Inhibitive Primer 5 μm <sup>*</sup>	
Ink Coat	PVDF (Ink) or Advance Durability Polyester (Ink) 1 µm per Layer	
Clear Coat	High Durability Polyester 10 μm <sup>-</sup>	
Backing Coat	Paint System : Modified Polyester 5 μm+, Corrosion Inhibitive Primer 5 μm+	
Strippable Film	Em-Strip Film	
Base Metal Thickness (BMT)	0.42, 0.48, 0.55mm. (Up to 1.20mm.)**	
Width	940 -1200mm. (Up to 1270mm.)	

<sup>\*</sup>Triple spot minimum coat thickness 80% of nominal value and After painted thickness (APT) will depending on pattern design.

<sup>\*\*</sup>In adition to the table the thickness can be produced is 0.25-1.20 mm.



#### **Em-Strip Film**

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

\*\*\*(As an optional)

#### Pattern Paint Technology

Utilising of the most advanced manufacturing to create unique patterns and virtual textures.





# EMFUNIQUE®



### 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	10 years*
Colour Fading and Chaking	5 years*

<sup>\*</sup>The number of years warranty it only for southeast asia in the vertical position panel (90°).

- 1. EM-UNIQUE pattern paint 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 0.52 mm. Pattern Name: General Wood PW-GW-001\*\*
- 2. 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
- 4. 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
- 5. 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
- 6. Product warranty is subject to the terms and conditions of the Empower Steel company only.

<sup>\*\*</sup>Example of writing product specification for project work