
KUKJE ST

INDEX

1 General

1-1 Company Introduction

1-2 History

2 Business

2-1 Production capacity

2-2 Main Products

3 Product

3-1 Guardrail

3-2 Bridge Barrier

3-3 Angle adjustable fence

3-4 Footbridge

4 Supplies

04 Supply of products

5 Certificate and Patent

05 Certificate and Patent

Company name	KUKJE ST
License No	308-81-13960
CEO	Kyong Bai, Lee
Establishment date	1990
Employee	53
Address	81, Dongsansaneopdanji-ro, Yeonmu-eup, Nonsan-si, Chungcheongnam-do, Republic of Korea (zip code : 33010)
Type of business	<ul style="list-style-type: none">• Manufacturing business• Specialty construction business (metal structure)
Business item	Guardrail, Bridge barrier, Fence, Footbridge
Homepage	http://www.kukjest.com
E-mail	sales@kukjest.com

Location

81, Dongsansaneopdanji-ro, Yeonmu-eup, Nonsan-si, Chungcheongnam-do, Republic of Korea

Area

17,889 m² / Three factories & One office building



- Established KUKJE ST
- Nonsan factory's expansion of company (area 8,264 m²)
- Awarded as Best Mid-sized Innovative Company [PPS]
- Performance certification of Foot bridge [PPS]
- Awarded as Technology Innovative [PPS]
- Registration excellent product about sidewalk for bridge[PPS]
- Awarded as IP Star company [RIPC, Regional Intellectual Property Center]

A large, light blue arrow pointing to the right, serving as a timeline background. It contains three orange circles representing time periods. Dashed lines connect the circles to their respective lists of events.

1990's
- 2000's

2001's
- 2010's

2011's
- 2016's

- Obtained Q-mark
- Obtained KS certification
- Obtained ISO 9001
- Awarded as innovative firm (SMBA, The business administration)
- Approved as Technology Innovative (SMBA, The business administration)

Guardrail

- Daily production **4km**
- Annual production
1,000km

Fence / Barrier

- Daily production **800m**
- Annual production
250km

AL melting

- Daily production **4ton**
- Annual production
1,200ton

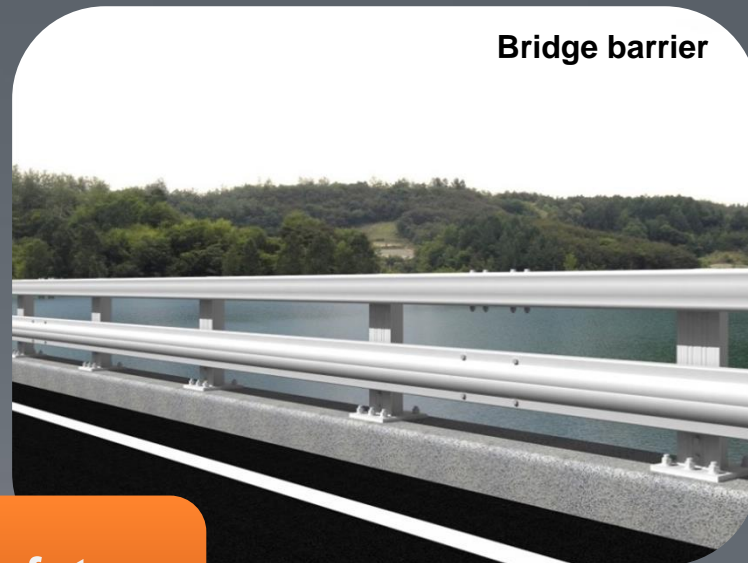
2-2

MAIN PRODUCTS | Business

Guardrail



Bridge barrier



Road Safety Barriers

Footbridge



Fence

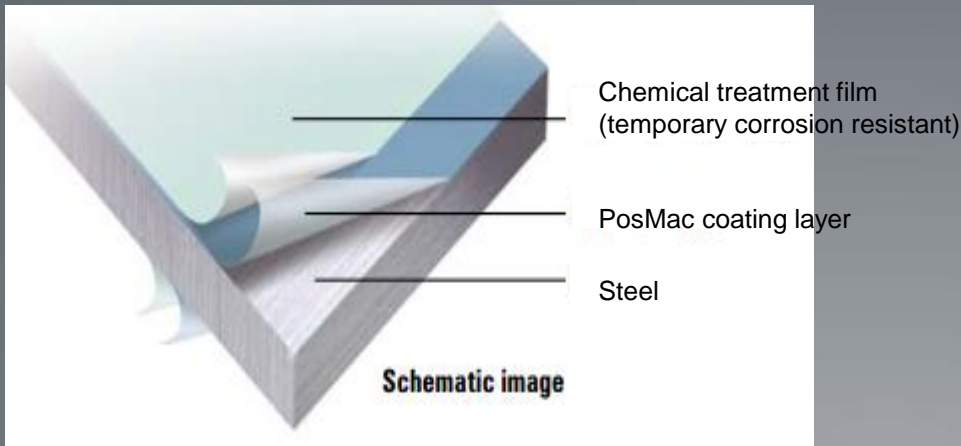


GUARDRAIL is made of PosMAC



What is PosMAC ?





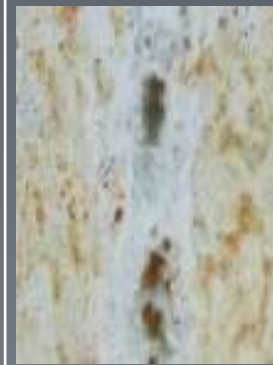





PosMAC(POSCO Magnesium Aluminum alloy Coating product) is a ternary alloy coated steel (Zn-3% Mg-2.5% AL) with high corrosion resistance developed with POSCO's own technology.



Product characteristics

- PosMAC is a corrosion resistant products that is 5 to 10 times stronger resistance than that of a normal hot-dip galvanized steel sheet(Gi, GI(H)) with the same coating weight. PosMAC has an excellent cross-section corrosion resistance; normal thick plating products can be replaced with this product.
- The same processing, assembly and painting process can be applied to PosMAC as one would apply to GI.

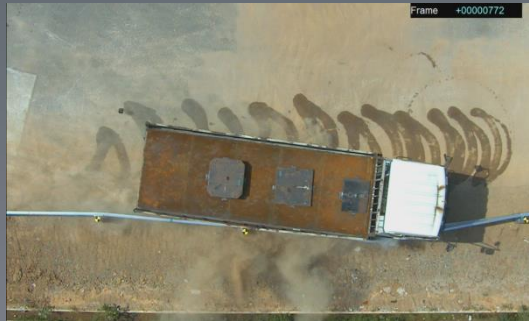
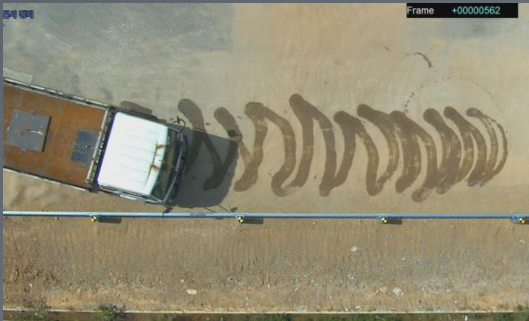
Comparison to corrosion resistance between PosMAC and Galvalume

SST	PosMAC		Galvalume		
	60g/m ²	80g/m ²	500g/m ²	540g/m ²	580g/m ²
300 Hr					
1300 Hr					

SST 1cycle : Salt spray 2hr -> Dry 4hr -> Damp 2hr

Vehicle impact test

1) Performance test of strength



2) Performance test of passenger protection



3-1

GUARDRAIL & Bridge Barrier | Products

Performance standard of vehicle impact test

1) Test condition - Strength

Grade	Speed (km/h)	Weight (kg)	Angle	Impact Energy (KJ)
SB2	65	8,000	15	90
SB4		14,000		160
SB5	80			230

2) Test condition - Passenger protection

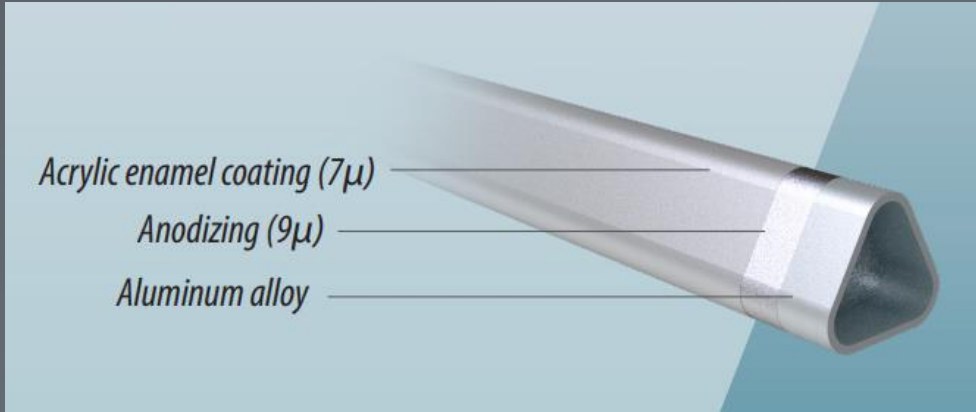
Grade	Speed (km/h)	Weight (kg)	Angle	AIS*
SB2	80	1,300	20	THIV : 33 km/h PHD : 20g
SB4				
SB5	100			

※ AIS : Abbreviated Injury Scale

Guardrail type

Type	Guardrail	Bridge barrier
Material	PosMac	Aluminum

Aluminum Alloy



Acrylic enamel coating (7 μ)

Anodizing (9 μ)

Aluminum alloy

The bridge barrier is made of an anodized and acrylic enamel laminated aluminum which has a semi-permanent resistance to corrosion



Vehicle impact test

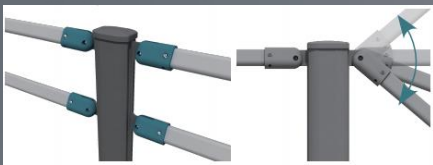
1) Performance test of strength



2) Performance test of passenger protection

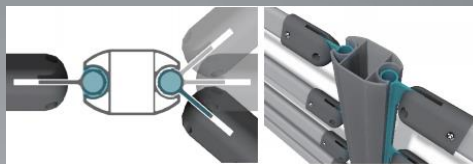


Rail Bracket



Rail Bracket allows adjusting the fence up and down easily so the fence can be installed even at the sloped areas without any product modifications so it maintains its performance.

Rotating Bracket



Rotating Bracket allows adjusting the fence left and right easily so the fence can be installed even at the curved areas without any product modifications so it maintains its performance.



WPC



AL reinforcing structure



Aluminum beam deck

Features

- Aluminum beam deck
- Technology verification

1) Fatigue Test

Verified the fatigue safety by 500,000 cycles of repeated stress.

2) Load Test

Load	5 kN/m ²	8 kN/m ²
Deflection	1.04 mm	1.82 mm



Certificate KS



Certificate ISO



Certificate Main-biz



Certificate Inno-biz



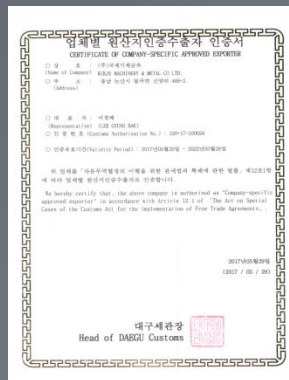
Certificate Q-mark



IP - management enterprise



Specific - approved exporter



Certification of quality



Certification of quality



Certification of excellent product



Certificate of patent



Certificate of patent



THANK YOU