



KCI

Road safety facilities

CO.LTD




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The background of the entire slide is a lush green field of leaves. The leaves are of various shapes and sizes, with prominent veins visible. They are arranged in a way that creates a sense of depth and texture, with some leaves in the foreground being sharper than others in the background.

**“We will create
the best eco-friendly and safe products.**

**Over the years, we have pursued our sole belief in creating
safe and eco-friendly traffic safety facilities
to create a beautiful world.**

**Moreover, In order to implement a new paradigm,
we have not neglected our research and efforts in this field,
considering improving the urban environment and
precious lives so that we can lead a more beautiful life.**

**With the motto “Safety and Environment”,
we promise to do our best to contribute
to the quality of human life and
the urban environment through the development of safety
and environmentally artistic design products.**

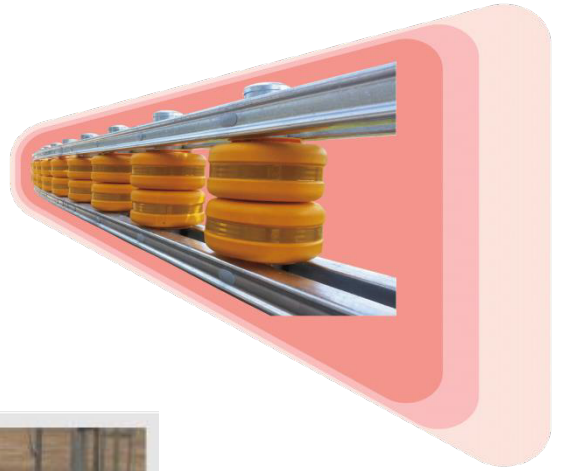
We are deeply grateful for your support.

All executives and employees of KCI Co., Ltd.

KCI Co., Ltd

Safety Roller

Safety roller barrier Collision Test



**Before
collison**



Collison



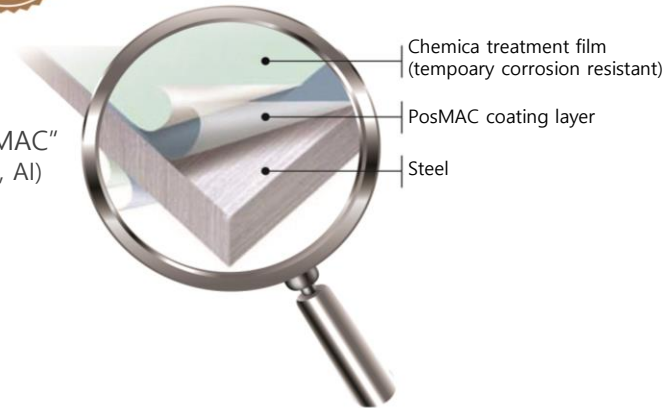
**After
collison**



Safety Roller



What is PosMAC?




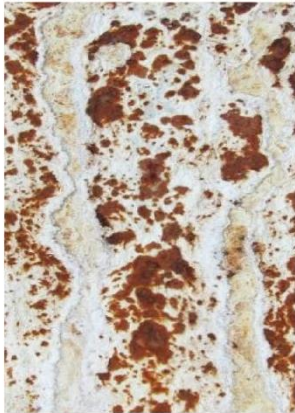


- Innovative High Corrosion-resistant steel plate "PosMAC"
-TERNARY ALLOY COATED STEEL PLATE(ZN-3%, Mg-2.5%, Al)
- 3times higher corrosion-resistant properties than conventional hot-dip galvanized product
- Excellent Anti-corrosive property on the flat surfaces
/Anti-corrosive property on cut edges
/Strong anti-corrosive property against acid rain
- High corrosion resistance against neutral salt
(High efficiency of guardrail at sea side)

◆Corrosion of buried post



◆ comparison between new & old product

	PosMAC	Galvanizing product
	PosMAC Steel	Hot dip galvanized steel
product		
Feature	<ul style="list-style-type: none"> ● High corrosion-resistant alloy coating steel sheet ● magnesium(Mg) + Aluminum(Al) + Zinc(Zn) ● Guidelines of Ministry of Land / Complete revision and announcement of Korea Expressway Corporation's specifications <p>Excellent corrosion resistance on planar portion</p> <ul style="list-style-type: none"> ● Excellent corrosion resistance on planar portion / prevention of corrosion on cutting part ● Strong with acid rain ● Very strong anti-corrosion with salt ● Strong to corrosion from road calcium chloride 	<ul style="list-style-type: none"> ● Plating on steel sheet(molten zinc) ● The life time of the guardrail is about 10 years and getting rust on reclamation post from field(deterioration) ● Early discoloration of bleaching and color after installation in the field ● Large difference with hot dip galvanized appearance quality ● weak with salt and easily come out rust after installation 2 years ● Easy corrosion from road calcium chloride
	PosMAC (275g/m ²)	Hot dip galvanized steel(550g/m ²)
Comparison result of corrosion resistance		
<p>- PosMAC is 3 times higher corrosion-resistant properties than conventional hot-dip galvanized product</p> <p>※ test method : CCT salty water spray test (galvanized product occurred red rust from 90 cycle) (Salty water spray 2Hr -> Dry 4Hr - Humidity 2Hr) Check the sample after 1 cycle</p>		

Road Barrier

Tested "SB4"



KRKSI-GP454-SB4

Size W2000xH855

Material PosMAC+Steel



KRKSI-GP454-SB4-1

Size W2000xH855

Material PosMAC+Steel/Color Type



KRKSI-GP454-SB4-2

Size W2000xH855

Material PosMAC+Steel/Color Type

Road Barrier

Tested "SB3"



KRKSI-GP354-SB3

Size W3000xH880

Material PosMAC+Steel

Tested "SB4"



KRKSI-J-GP454-SB4-1

Size W12000xH880

Material PosMAC+Steel