

# SHINDO INDUSTRY CO. LTD.

SHINDO is moving fast and keeps growing for  
the innovation of roadway safety products.

慎而不怠  
시름지않고  
수지안고  
辛卯年七月  
前大邱大學校總長  
經營學博士  
補闕李在奎



SCAN "QR CODE"

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# 01 Company Introduction



- Founded in 1987, SHINDO Industry is a leading manufacturer specializing in Road safety & Traffic management products in Korea.
- With manufacturing all of our products at our own factories (3 places) in Korea, we offer innovative and cutting-edge technology and an unequal level of service and quality.
- Our products are designed and engineered to meet the higher requirements of countries all over the world and manufactured in conformity with all applicable standards such as CE, MASH, KS, Q, NET, NEP.(Shindo is the first company which acquired CE Mark for Crash Cushion for the first time in Asia)
- Through its strong expertise, Shindo Industry will continue to dedicate ourselves to improve road safety and traffic management with value-added, innovative product lines.

# 01 Company Introduction

## Overview



Company Name

SHINDO Industry Co., Ltd / Manufacturer

CEO

D. H. Hwang

Established

May 1987

Business Categories

Powder-coated Guardrail, Crash Cushion, End Terminals, Rolling Barrier  
Road Traffic Safety Products

Sales Revenue

\$110 million / 270 employees (2017)

Head Office

Gyeonggi-Do (59-49, Donyu 1-Ro, Munsan-Eup, Paju)

Seoul Office

Seoul (121-913, KGIT Center 22th Floor)

Factories

Factory 1 - Guardrails, Powder Coating  
Factory 2 - Crash Cushions, End Terminal  
Factory 3 - Plastic Road Safety Products

Website

[www.shindosafety.com](http://www.shindosafety.com)



# 02 Head Office and Factories



Head Office and Facility 1  
59-49, Donyu 1-ro, Munsan-eup, Paju-city, Gyeonggi-do



Facility 2  
91-2, Donyu 2-ro, Munsan-eup, Paju-city, Gyeonggi-do



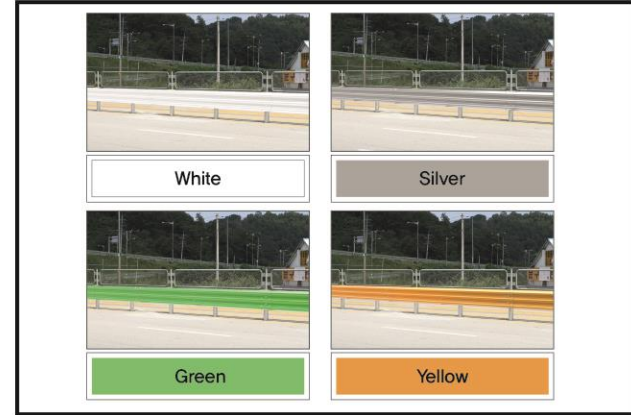
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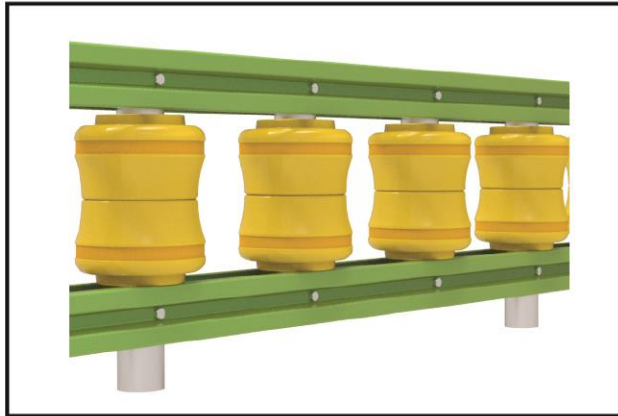
# 03 Business Areas



Crash Cushions & End Terminal



Powder Coated Guardrail



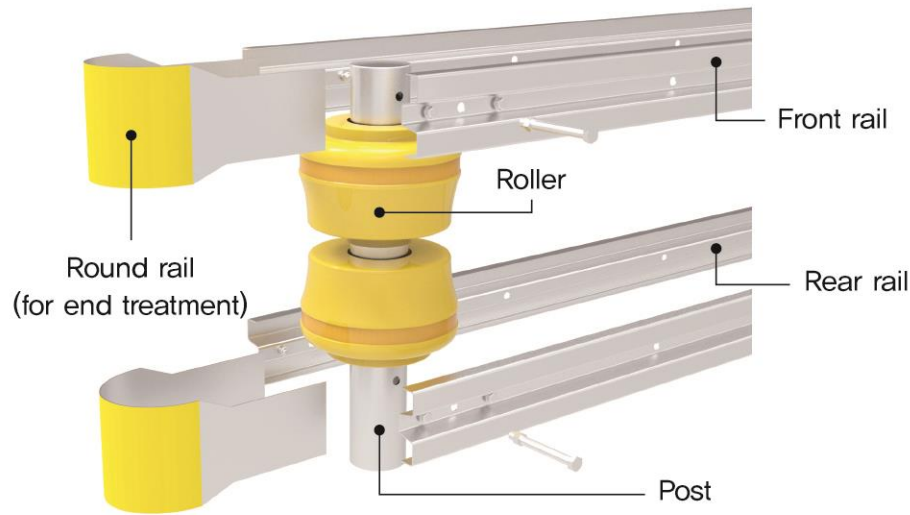
Rolling Barrier



Road Safety Products & Parking Devices

안전하고 행복하한 세상  
신도산업이 만들어 갑니다

### ■ PRODUCT STRUCTURE

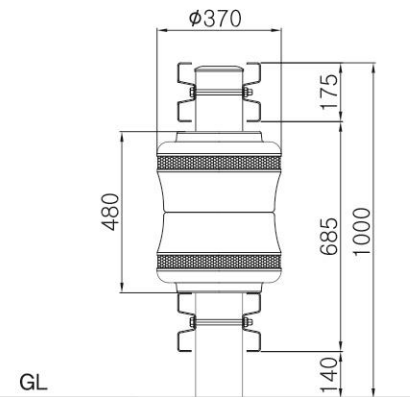
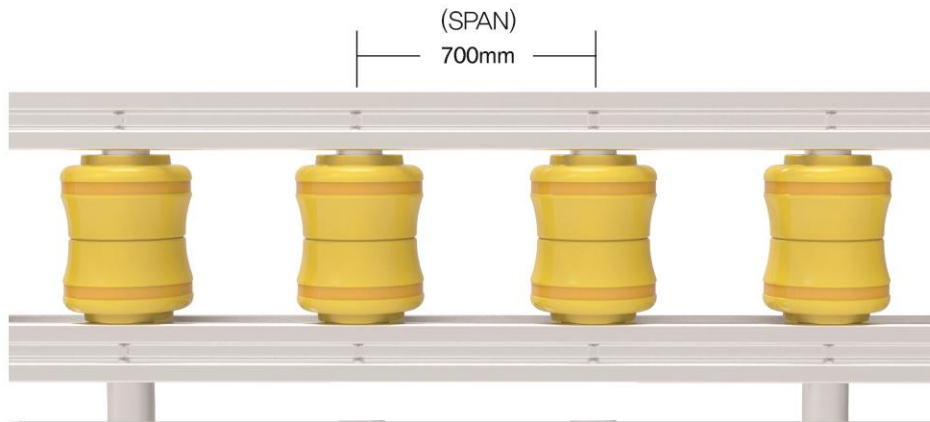


. Dimension : W700 x H1000 mm

. Containment level : 100km/h

### . Key Features

- Easy installation and maintenance on curved road.
- High-elastic synthetic resin Roller is hardly damaged on impact. (Cover: PE / Core: Urethane)
- Powder coating with various colors is available upon request.
- Minimizes damages on motorists and vehicles with rollers and dual guardrails.
- Two-year warranty for Roller Parts.  
Five-year warranty for Steel Parts.



# 04 Products

## Rolling Barrier



Products	Rolling Barrier TL4 (US MASH Standard)	General Guardrail SB3 (Korea SB Standard)
Before Test		
After Test		
Dimension	H1000xW1400	H1150xW2000
Vehicle Weight	10ton	8ton
Impact Speed(km/h)	90km/h	85km/h
Working Width	0.4m	1.04m
Impact Angle	15°	15°
Impact Energy(kJ)	209	150

안전하고 행복한 세상을 만드는 업입니다

# 04 Products

## Rolling Barrier



### CENTRO PROVE AISICO

LABORATORIO ACCREDITATO AI SENSI DELLA NORMA UNI CEI EN ISO / IEC 17025:2005  
ACCREDITED LABORATORY ACCORDING TO NORM UNI CEI EN ISO / IEC 17025:2005

#### RESOCONTO DI PROVA n° MASH011

CRASH TEST LIGHT REPORT #

**Tipologia prova:** Passenger Car – TL 3-10  
(Test type) Passenger Car – TL 3-10

**Tipologia barriera:** Barriera di sicurezza bordo laterale mod. RGS-TL3-A  
(Barrier type) Road Safety Rolling Barrier mod. RGS-TL3-A

**Committente:** SHINDO INDUSTRY CO.,LTD  
(Customer)

**Data della prova:** 2016/12/13  
(Test date)



Normativa di riferimento – Reference Standard:

Manual for Assessing  
Safety Hardware  
Mash 2009



Il Direttore del Centro Prove

Date of Test Report  
2016/12/22



### CENTRO PROVE AISICO

LABORATORIO ACCREDITATO AI SENSI DELLA NORMA UNI CEI EN ISO / IEC 17025:2005  
ACCREDITED LABORATORY ACCORDING TO NORM UNI CEI EN ISO / IEC 17025:2005

#### RESOCONTO DI PROVA n° MASH010

CRASH TEST LIGHT REPORT #

**Tipologia prova:** Pickup Truck – TL 3-11  
(Test type) Pickup Truck – TL 3-11

**Tipologia barriera:** Barriera di sicurezza bordo laterale mod. RGS-TL3-A  
(Barrier type) Road Safety Rolling Barrier mod. RGS-TL3-A

**Committente:** SHINDO INDUSTRY CO.,LTD  
(Customer)

**Data della prova:** 2016/12/13  
(Test date)



Normativa di riferimento – Reference Standard:

Manual for Assessing  
Safety Hardware  
Mash 2009



Il Direttore del Centro Prove

Date of Test Report  
2016/12/22

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신도산업이 만들어 갑니다

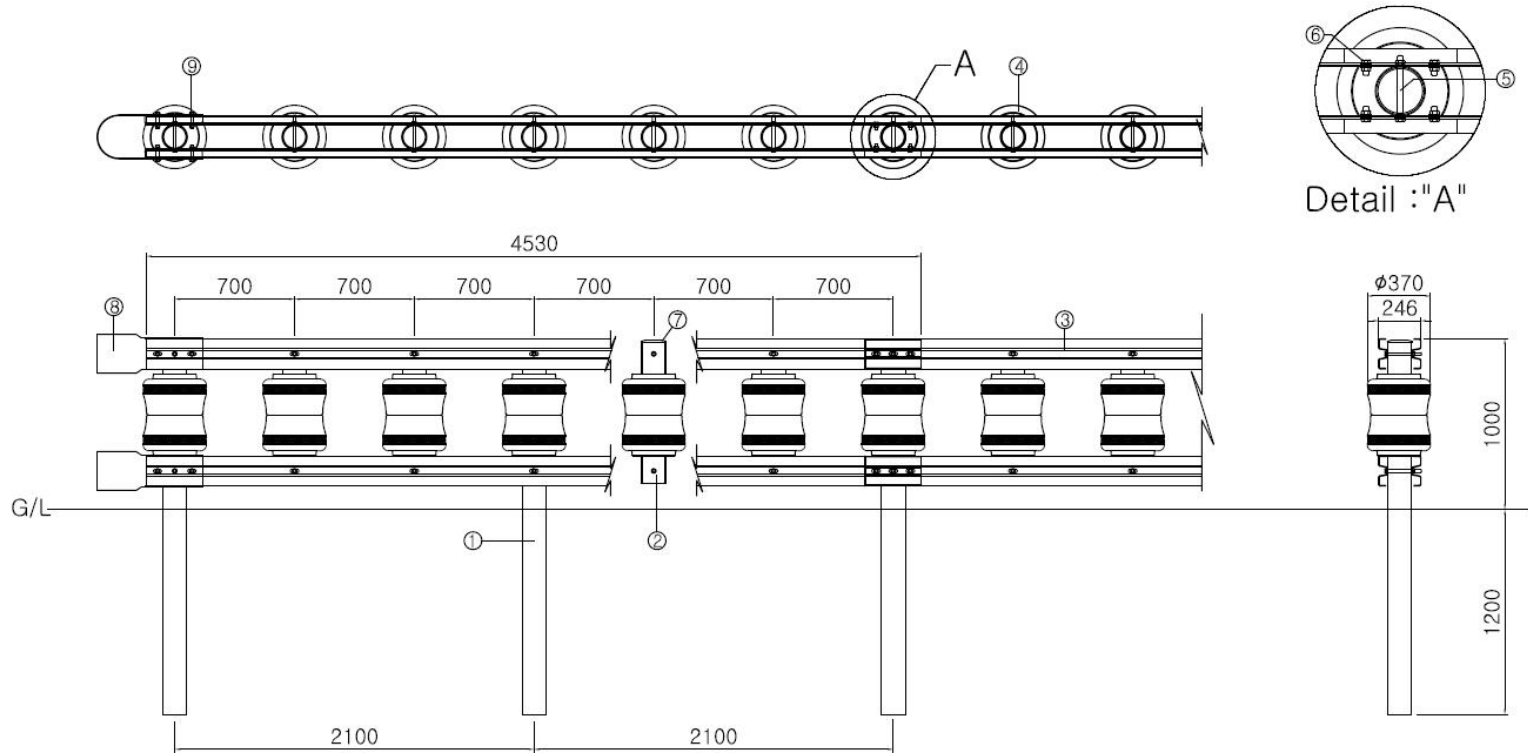


# 04 Products

## Rolling Barrier



Rolling Barrier(RGS-TL3-A)  
H1000xW700 - TL3



Rolling Barrier(RGS-TL3-A)

(1 SPAN : 4200mm)

NO	Product	Standard	Unit	Quantity	Material
1	Main Post	139.8X2180X4.3t	EA	2	SS400
2	Sub Post	139.8X825X4.3t	EA	4	SS400
3	W rail	175(±2)X50X4530X3.8t	EA	4	SS400
4	Shock Absorbing Roller	ø70x240	EA	12	PE/Urethane
5	Hexagon Bolt/Nut/Washers	5/8X200	EA	12	SS400
6	Hexagon Bolt/Nut/Washers	5/8X38	EA	8	SS400
7	Post cap	139.8	EA	6	SS400

Round rail(RGS-TL3-A)

1SPOT

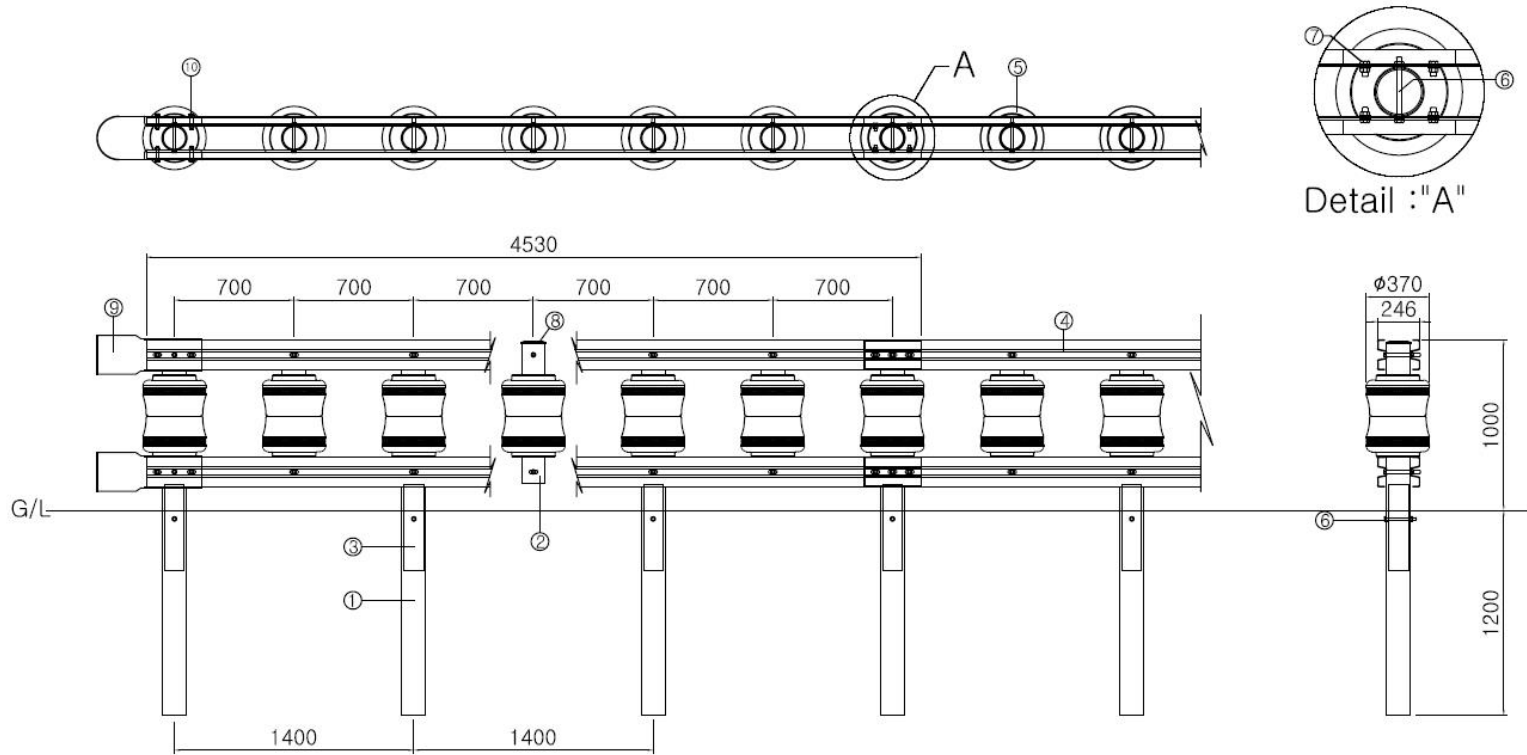
NO	Product	Standard	Unit	Quantity	Material
1	Main Post	139.8X2180X4.3t	EA	0.5	SS400
4	Shock Absorbing Roller	ø70x240	EA	1	PE/Urethane
5	Hexagon Bolt/Nut/Washers	5/8X200	EA	1	SS400
7	Post cap	139.8	EA	0.5	SS400
8	Round rail	-	EA	2	SS400
9	Hexagon Bolt/Nut/Washers	5/8X80	EA	4	SS400

# 04 Products

## Rolling Barrier



Rolling Barrier(RGS-TL4-A)  
H1000xW700 - TL4



Rolling Barrier(RGS-TL4-A)		(1 SPAN : 4200mm)			
NO	Product	Standard	Unit	Quantity	Material
1	Main Post	1139.8X2180X4.3t	EA	3	SS400
2	Sub Post	1139.8X825X4.3t	EA	3	SS400
3	Inner Post	1114X500X4.3t	EA	3	SS400
4	W rail	175(±2)X50X4530X3.9t	EA	4	SS400
5	Shock Absorbing Roller	1Ø75x240	EA	12	PE/Urethane
6	Hexagon Bolt/Nut/Washers	5/8X200	EA	15	SS400
7	Hexagon Bolt/Nut/Washers	5/8X38	EA	8	SS400
8	Post cap	1139.8	EA	6	SS400

Round rail(RGS-TL4-A)		1SPOT			
NO	Product	Standard	Unit	Quantity	Material
1	Main Post	1139.8X2180X4.3t	EA	0.5	SS400
5	Shock Absorbing Roller	1Ø75x240	EA	1	PE/Urethane
6	Hexagon Bolt/Nut/Washers	5/8X200	EA	1.5	SS400
8	Post cap	1139.8	EA	0.5	SS400
9	Round rail	-	EA	2	SS400
10	Hexagon Bolt/Nut/Washers	5/8X80	EA	4	SS400

안전하고 행복한 세상 신도산업이 만들어 갑니다

# 04 Products

## Rolling Barrier



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# 04 Products

## Rolling Barrier



### Case of installation in Korea



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### General Maintenance

1. When it is found or considered that there is corrosion after regular check, plate again with galvanizing compound (in form of spray) on the point.
2. When it is considered to get damaged or deformed and function improperly by accidents or natural disasters, repair it immediately to avoid any secondary damage.
3. Partially replace the parts in accordance with the level of damage. When the system has been damaged wholly, remove it immediately and reinstall it to prevent any secondary damage.
4. Pay special attention to avoid any damages on the shock-absorbing system when snow-removing work during the winter.

### Crash Related Maintenance

#### 1. Deformation of the System

Side Impacts, depending on the severity, may cause damage to the system. The system that has been impacted on its side should be examined by an engineer. The engineer is to ensure that the damage is only superficial and it does not affect its performance.

#### 2. Removal/Replacement of the System

When System is badly damaged and considered unable to be repaired on the roadside, the system has to be removed. Once disassembled, the system can be lifted as a unit and transported back to a maintenance facility. If you face technical difficulties, please contact the local Shindo Representative for help.

# 06 Domestic Customers



안전하고 행복한 세상  
신도산업이 만들어 갑니다

THANK YOU

慎而不怠  
시름지않고  
수지않고  
辛卯年七月  
前大邱大學校總長  
經營學博士  
補闕李在奎