



SHINDO PRODUCTS CATALOGUE

ROAD SAFETY SOLUTIONS

- · Certified with ISO 9001
- · Acquired Certified of Eco-Label
- · Acquired Certified of Q-Mark
- · Acquired Certified of KS
- · Acquired Certified CE Marking
- · Acquired Certified MASH TL3, TL4



2019

DEC Dubai Gulf Traffic

SEP Australia National Roads & Traffic Expo 2019

2018

MAY Acquired MASH TL3 for Crash Cushion Acquired MASH TL3 for Guardrail

Participated in the exhibition "IndoBuildTech"

MAR Participated in the exhibition "Intertraffic Amsterdam"

2017

NOV Intertraffic Mexico

MAY Intertraffic Turkey

FEB Acquired MASH TL3, TL4 for Rolling Barrier

2016

APR Participated in Intertraffic Amsterdam

Acquired CE certificate(EN1317-2) for guardrail(H2) Acquired CE certificate(EN1317-2) for guardrail(H1)

2015

NOV Participated in the 25th World Road Congress Seoul 2015

MAY Participated in the exhibition "Intertraffic Istanbul"

2014

DEC "9th Malaysian Road Conference"

JUL Acquired CE certificate(EN12899-3) for Flexible Delineator Post

APR Participated in the exhibition "Intertraffic Amsterdam"

MAR Acquired CE certificate(EN1317-3) for the New Parallel Crash Cushion System (CCSII - 50, 80, 100, 110km/h)

2013

FEB New Factory line and office are completed (the total gross area: 20,000 square meters)

2012

DEC Parallel & Non Parallel Crash Cushion System (CCSI – 50, 80, 100, 110km/h) is certified by Russian Certificate

APR Participated in the exhibition "Intertraffic Amsterdam"

MAR Non Parallel Crash Cushion System (CCSI – 50, 80 ,100 ,110km/h) passed European Standard Impact Test EN1317–3 and is certified by CE marking.

2011

AUG Acquired CE certificate(EN1317-3) for the Non Parallel Crash Cushion System (CCSI - 50, 80, 100, 110km/h)

2010

OCT Acquired CE certificate(EN1317-3) for the Parallel Crash Cushion System (CCSI - 50, 80, 100, 110km/h)

2009

JUL Crash Cushion System(CCSI) passed the Barrier Crash Test (100km/h) by the Ministry of Construction and Transportation

2008

NOV Participated "Rodex/Railex Abu-Dhabi exhibition"

APR Established Branch Office in Qingdao China

APR Participated in the exhibition "Intertraffic Amsterdam" and "Intertraffic Beijing"

2007

JUL Participated in the fair "7th Malaysian Road Conference"

MAR Participated in the exhibition "Intertraffic China"

FEB Crash Cushion System(CCSI) passed the Barrier Crash Test (80km/h) by the Ministry of Construction and Transportation

2005

JUL Airbag Crash Cushion System passed the Barrier Crash Test (80km/h) by the Ministry of Construction and Transportation

2002

JUL Gyeonggi-do Paju Factory Completed, (6,600 square meters)

2000

DEC Global ISO 9002 Certified

1998

AUG Plastic Jersey Barrier designated a "new technology" by the Ministry of Construction and Transportation (No.118)

1994

MAY Certified as a Promising Advanced Technology Company by the Ministry of Commerce and Industry(Certification No. 90522)

1991

MAR Registered as an equipment partner of Hyundai Motors, Kia Motors and GM Korea Motors

1988

JUL Signed a technical partnership agreement with Umeda Model of Japan

1987

MAR Shindo Industry founded

Factory 1 (10,952 square meter)

Rotational molding machines, Blow molding machines, Injection molding machines Produces traffic safety products (cones, speed hump, car stoppers, etc.)



Factory 2 (3,359 square meter)

guardrail manufacturing and crash cushion assembly lines



Factory 3

Guardrail roll forming machines, Die-casting machines



Index

03 Impact attenuators

· CCSII (CE) (50km, 80km, 100km, 110km)



04 Impact attenuators

- · CCS I (CE) (50km, 80km, 100km, 110km)
- · CCS MASH TL3



05 Impact attenuators

- · End Terminal
- · CCS NT60
- · Truck Mounted Attenuator



06 Impact attenuators

Rolling Barrier (MASH TL3, MASH TL4)



07 Guardrail

- · CE Guardrail-H1
- · CE Guardrail-H2
- · MASH TL3 Guardrail



08 Guardrail

Open Type Guardrail (Median strip, Roadside, Bridge)



09 Guardrail

· Powder Coated Guardrail (Median strip, Bridge)



10 Guardrail

- · Bridge guardrail (Type A,B)
- · Joint type bridge guardrail (TypeA,B)



11 Traffic

- · Urethane Road Fence
- · Plastic Jersey Barrier
- · Line Barrier

12 Traffic

- · Flexible Delineator Post
- · Assembly Flexible Delineator Post



13 Traffic, Impact attenuators

- · Anti Glare Board
- · PCS-1,2,3



14 Traffic

- · Rubber Speed Hump
- · Lane Block



15 Traffic

- · Flexible Reflective Delineator
- · Safety Guide Robot



16 Traffic

· Safety Convex Mirror



17 Traffic

· Traffic Speed Display



18 Parking

· Car Stoppers



19 Construction

- · Plastic Sign Board
- · Multy Sign Board
- · Smart Sign Board



20 Construction

- · Four Side Sign Board Stand
- · Curb Mirror (S · type)
- · Curb Mirror (C · type)



21 Construction

- · Plastic Barricade
- Safety Barrel
- · Smart Drum



22 Traffic

- · Traffic Color Cone
- Rubber Cone
- · Smart Color Cone
- Smart Super Heavy Cone
- · Reflective Cone Bar



CCSII

(50km, 80km, 100km, 110km)





CCSII 50km/h

CCS1150

L3,700 x W608 x H808(mm) 449kg



CCS II 50 (Non Parallel)

L3,600 x W3,000(2,570) x H780(mm) 816kg





CCSII 80km/h

CCS1180

L4,650 x W608 x H808(mm) 528kg

CCS II 80 (Non Parallel)

L5,590 x W3,000(2,300) x H780(mm) 1,138kg





CCSII 100km/h

CCSII100

CCS II 100 (Non Parallel)

L6,550 x W608 x H808(mm) 690kg L7,390 x W3,000(2,040) x H780(mm) 1,456kg





CCSII 110km/h

CCSII110

L8,550 x W608 x H808(mm) 850kg CCS II 110 (Non Parallel)

L8,340 x W3,000(1,905) x H780(mm) 1,608kg

- · CE Certificate
- Re-directive, bi-directional, non-gating impact absorbing system
- · Durable with galvanized steel components
- · Easy installation, maintenance and movement
- · Partially reusable
- · Non Parallel CCSII is available
- · Four difference speed class models (50km, 80km, 100km and 110km)
- · Compact design with no plastic component











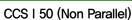
CCS I, CCS MASH TL3





CCS I 50km/h

CCS I 50 L3,594 x W800 x H1,010(mm)



L4,317 x W2,600(1,989) x H1,000(mm) 1.196kg





CCS I 100km/h

CCS I 100 L7,994 x W800 x H1,010(mm) 1,420kg

CCS I 100 (Non Parallel)

L6,952 x W2,600(1,569) x H1,000(mm) 1,803kg

Key Features

- · CE Certificate
- · Great visibility day & night
- · Partially Reusable Systems
- · Easy to install
- · Maintenance cost saving
- · Redirective and Repairable
- · No accumulation of foreign material within CCS
- · Wide CCS available
- · Refined design with orange plastic tanks







CCS I 80km/h

CCS I 80

L4,474 x W800 x H1,010(mm)

CCS I 80 (Non Parallel)

L5,196 x W2,600(1,849) x H1,000(mm) 1,388kg





CCS I 110km/h

CCS I 110 1,420kg

CCS I 110 (Non Parallel)

L7,994 x W800 x H1,010(mm) L7,829 x W2,600(1,429) x H1,000(mm) 2,026kg





- · Asia's first MASH test level 3 for crash cushion
- Redirective and Repairable
- · Great visibility day and night
- Refined design with orange plastic tanks
- · Easy to install and maintain







End Terminal

End terminals are used to terminate the barrier at the start and end of a barrier run.



End terminal W beam (2waves)

L10,790 x W500 x H725(mm) | Material : SS400



End terminal Thrie beam (3waves)

L6,520 x W478 x H860(mm) | Material : SS400

Key Features

- · Galvanized antirust materials
- · Easy maintenance with breakaway structure
- · Utilizes many standard guardrail components







CCS NT60

Key Features

- · Crash cushion system for asphalt road
- · Redirective and Repairable
- · Excellent to install on the small and narrow road
- Possible to install it on the asphalt road eaily without concrete base







L2,010 x D440 x H720(mm)

CERTIFICATE

APVICAN

Truck Mounted Attenuator

SHINDO TMA is designed to prevent impacting vehicles from under-riding the truck.

- · Galvanized steel frames and components
- · Orange powder coating is available upon request
- · Replaceable PE cartridges
- · System can withstand typical low-speed impact up to 10km/h
- · Simple attachment options for a standard truck
- · Provides 60km/h impact protection
- · Redirective, Repairable and Reusable



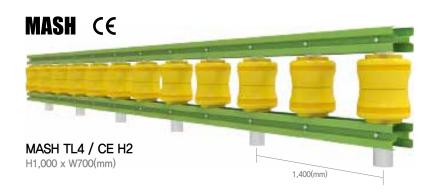
L1,255 x D1,435 x H550(mm)

Rolling Barrier (MASH TL3, MASH TL4)

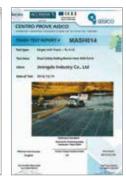




MASH (US)







EN1317 / H2 (CE)

MASH (US)

- · Easy installation and maintenance on curved roads
- · Highly-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













CE Guardrail-H1, CE Guardrail-H2



H1: W2,000 x H750 x 3.2t H2: W1,333 x H850 x 2,7t

Key Features

- · Passed the crash tests under EN1317-2 standards with a containment level of H1, H2
- · W-Beam rail & C-Channel post
- · Powder coating is available with various colors (white, silver, light green, yellow) upon request

MASH TL3 Guardrail



W4,000 x H775(mm) 2.67t

- · Passed the crash tests under MASH USA standards with a containment level of TL3
- · W-Beam rail & C-Channel post, block out
- · Powder coating is available with various colors (white, silver, light green, yellow) upon request
- · Malaysia JKR approval product

Open Type Guardrail

(median strip, roadside, bridge)



Open Type Guard Rail [for median strip]

· H900 x W3,000 x D250 | H850 x W2,000 x D500 H900 x W3,000 x D500 bridge

Open Type Guard Rail [for roadside]

· H800 x W4,000 x D340 | H900 x W3,000 x D320 | H850 x W4,000 x D350 | H900 x W3,000 x D320 embankment H900 x W3,000 x D360 | H1,100 x W3,000 x D350 | H1,150 X W2,000 x D320 embankment

[Product Advantages]

- · distributes the stress at the time of collision with vehicles
- · Shock-absorbing function

Open Type Guard Rail [for bridge]

· H900 x W3,000 x D402 | H1,100 x W2,000 x D375 H1,100 x W2,000 x D402

[Specifications] Stiffening plate of rail



after crash Stiffening plate of rail strengthens durability by distributing shock at the time of collision

· Excellent durability and easy maintenance

· Selected product design excellence

Strengthening support





Inserted inside the support increases the supporting

Circular connecting apparatus





impact shock at the time of collision











Glare shield





Vehicle head light of opposite is perfectly blocked by attaching stiffening plate at high beam angle of vehicle head light and glare shield at the upper part.

Powder Coated Guardrail

(median strip, bridge)



Flexible guard rail [median strip type for bridges]

· H850 x W2,000 x D500

Flexible guard rail [roadside type for bridges]

· H850 x W2,000 x D380

Flexible guard rail [median strip type glare shield for bridges]

· H850 x W2,000 x D500 anti glare board

[Product Advantages]

- · Shock-absorbing function, Shape recovery function, Separate pillar
- · Visibility and driver guiding features

- · Selected product design excellence
- · Excellent durability, Easy maintenance

[Specifications]



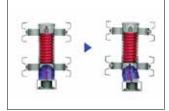
[Rail assembly]



[Assembly of Rail+Stiffening plate of rail]



[Assembled view of rail and rail stiffening plate]



[Joint-pillar]]

[Colors available]

Molten zinc plating, powder coating-natural friendly color



No.1 Pastel green



Light gray



No.3 Silver White color



No.4 Dark gray



Light Color of stone wall



No.6









Bridge Guardrail

Product name	Size	Characteristics and advantages	Remark
Bridge guardrail Type A	H1,100 x L2,000	Support and rail are resistant to rust and corrosion as it is powder—painted on galvanized zinc plate for general structure and its aesthetic appearance looks outstanding. Frame looks light as STS304 pipe is used.	Support & rail Galvanized zinc plating powdered painting Frame: STS304
Bridge guardrail type B	H1,100 x L2,000		
Joint type bridge guardrail A	H1,100 x L2,000		
Joint type bridge guardrail B	H1,100 x L2,000		

Location to be installed in case of walkway

In case that safety fence is installed at boundary between walkway and driveway, this guardrail is installed at the end of bridge in order to prevent pedestrians and bicycles from being deviated (separated) to bridge outside.



Bridge guardrail Type A H1,100 x L2,000(mm)



Bridge guardrail Type B H1,100 x L2,000(mm)



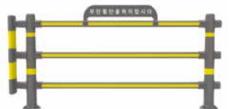
Joint type bridge guardrail A H1,100 x L2,000(mm)



Joint type bridge guardrail B H1,100 x L2,000(mm)

Urethane Road Fence

Urethane Road fences are used to prevent pedestrians from crossing the road at risk





Material: Urethane W2,000 x H900 (mm)

Material: Urethane W1,800 x H900 (mm)

Material: Urethane W1,800 x H900 (mm)

Key Features

· Easy installation, high impact resistant









Plastic Jersey Barrier / Line Barrier



PJB1(A) L2,000 x W600 x H900(mm)



PJB2(A) L1,200 x W600 x H900(mm)



PJB2(B) L1,200 x W600 x H900(mm)



PJB3 L1,200 x W600 x H900(mm)



PJB1(B) L2,000 x W600 x H900(mm)



Line Barrier L1,000 x W450 x H1,200(mm)

"Plastic Jersey Barrier passed the crash test certified by the Ministry of Construction and Transportation."

Plastic Jersey Barriers use advanced caps for drainage, utilizing the principle of stronger tightening with increasing pressure in the Plastic Jersey Barrier, and never leaks water.

However, other similar products look almost the same, but water leaks out from the cap, and some products do not even have a drain.

Flexible Delineator Post

CE

200 Ø x 80 Ø x H750 (mm) / 200 Ø x 80 Ø x H450 (mm) 250 Ø x 80 Ø x H750 (mm) / 250 Ø x 80 Ø x H450 (mm)



2000 x 800 x H750 (mm) / 2000 x 800 x H750 (mm) 2000 x 800 x H750 (mm) / 2000 x 800 x H450 (mm)

Key Features

- Top—quality flexible Delineators Posts with excellent resilience of its ladder structure that passed 200 bending tests
- · The rigid reflective sheet with no discoloration
- · A standard product of the Ministry of Construction and Transportation.

"Resilience is very important for Flexible Guide post."

Shindo's Flexible Delineator Post has the best resilience.





Assembly Flexible Delineator Post



200 Ø x 80 Ø x H750 (mm) / 200 Ø x 80 Ø x H450 (mm) 250 Ø x 80 Ø x H750 (mm) / 250 Ø x 80 Ø x H450 (mm)

- · Easy replacement of Upper Guide Post only with no special equipment
- · Semi-permanent use of Lower Base
- · Maintenance cost saving with replacement of Upper Guide Post only
- · Complete maintenance with easy replacement just like changing razor blades













Anti Glare Board









For median strip guardrail

For concrete median strip

For PE guard wall median strip

Size: L650 \times W285 \times T58 \pm 0.5%(mm)

Changeable Prefabricated Dual Bracket

It is not easy to install Anti Glare boards because the width sizes of median strip guardrails are varied. This Anti Glare board is designed to easily install to any guardrails of which width sizes are varied by adjusting the changeable prefabricated dual bracket patented by Shindo Industry.

Key Features

- · Easier to assemble and stronger structure because of built-in SUS-made bolts
- · Convenient installation with a bolt fastening method
- · Possible to mount on any guardrails with various width sizes
- · Streamlined shape not to be affected by wind





PCS-1,2,3

(Plastic Cushion tank System)



PCS-1 L900 x W600 x H900(mm)



L900 x W900 x H900(mm)



PCS-3 L1,000 x W1,200 x H900(mm)



Reflecting effect at night

- · The lowest-price product in Korea that is easy to install
- · PC reflector is inserted molded to improve the night-time visibility.
- · Eco-friendly product certified by E-Mark
- · Can be filled with sand (Bags for sand provided)





Rubber Speed Hump / Portable Speed Hump



W500 x H50 x L width of road(mm)



W1,000 x H75 x L width of road(mm)



W1000 x H75 x L width of road(mm)



 $W2,000 \times H75 \times L \text{ width of road(mm)}$



W2000 x H50 x L width of road(mm)



W3,600 x H100 x L width of road(mm)



W1,000 x H30 x L width of road(mm)



W300 x H20 x L width of road(mm)

Main Applications

- · In the School Zone (near the school, kindergarten or playground)
- · In the general hospitals, religious facilities where there are lots of cars
- · In the parking lots of wholesale marts, apartments or large office buildings

Key Features

- · Assembly type that is easy to install
- · Strong tire-rubber material
- · Eco-friendly product certified by E-Mark

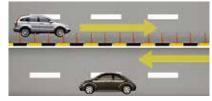
Lane Block

Shindo Assembly flexible delineator posts are used as the guide poles



L1,000 x W180 x H900(mm) size with post

- · Since the inside of the main body has an uneven structure, the product is damage—resistant and hard to break.
- · This product boasts excellent lane restricting effectiveness.
- · The guiding poles have excellent resilience and high visibility at night.





Flexible Reflective Delineator



ABS Ø150 x H208,5(mm)



Folderable Ø 150 x H181,5(mm)



for earthwork



for guardrail (H shape)



for guardrail (O shape)



for guardrail (Triangular Gutter)



for bridge hand rail



for guardrail anti glare mesh



for retaining wall

(I shape)







- HIGH FIEXIDIE

Key Features

- · High Flexible Performance
- · Against the Crack from High Impact
- · Doing Paten Applcation in Japan & China
- · High Quality Design for Safety Area & Zone
- · Easy to Install & Remove

Safety Guide Robot







- · Manufactured as a duplex type facility which allows being used for both direction simultaneously.
- · Operation power: both AC220v and DC12V battery are applicable (power line of both supply voltage and battery are built in).
- · Easy to place a signal light bar or flashing light at the ends of both arms.
- · The head and body are manufactured as a single piece of molding and wearing a water proof raincoat.
- The volume of the facility can be reduced by bending the upper body and two wheels at the bottom allow more convenient transport.

Stainless Convex Mirror

Types of brackets: Double-Sided, Band-Type, and Wall-Mounting



- · Stainless material that is anti-stain and anti-fog
- · Strong anti-fog function gives excellent visibility because it prevents the surface fogged up
- Photocatalyst coated mirror cleans the polluted substances with rain water
- · Various bracket types available









Traffic Speed Display



SCHOOL ZONE

30

Your Speed

km/h

안전운전하세요

VMS type W900 x H2,100 (mm)

What is the Speed Display?

This is a unit to inform car speed to driver by indicating the speed on LED monitor by calculating the speed of frequency versus time by comparing specific frequency transmitted to running car with reflected frequency by Dofler effect by using radar technology.

- · Detecting the head car first
- · Detecting overtaking vehicle first
- · Detecting car speed at the place 50-150m away
- · Detecting range is 1–4 lanes (9–12m)





Car Stoppers



Shindo Car Stopper

L750 x W180 x H120(mm)

- · Durable and resilient to impact
- · Easy installation
- Reflector is designed not to be contacted by wheels,



PP Car Stopper

L750 x W180 x H120(mm)

- · Durable and resilient to impact
- · Easy installation
- Reflector is designed not to be contacted by wheels.



Rubber Car Stopper(S-type)

L750 x W150 x H125(mm)

- · Durable and resilient to impact
- · Reflective Sheet is not detached and damaged due to the special structure,



Rubber Car Stopper L750 x W150 x H110(mm)

- · Durable and resilient to impact
- · Easy and solid installation
- · PC reflector creates great visibility at night,



Neoprene Car Stopper L750 x W150 x H120(mm)

- · High-intensity reflective sheet
- · Easy and solid installment
- · Extremely resilient enduring hammering impact



Large Car Stopper L1,000 x W175 x H200(mm)

- · PC reflectors are inserted both sides,
- · Eye-catching color draws drivers attention.
- · Extremely resilient enduring hammering impact



Dock Bumpers

L1,000 x W150 x H100(mm)

- · Rubber Dock Bumpers Help protect facilities with heavy dock traffic
- · Durable and resilient to impact



Hanaro Car Stopper(B-type)

L950x W150 x H120(mm)

- · Easy installation
- · Economic

(Only one pcs needed in a block)











Other carstopper

Hanaro carstopper

Plastic Sign Board



PE Sign Board

Product Size: W520 x H970(mm) Advertisement Size: W462 x H604(mm)

Key Features

- · Easy to handle, modular plastic product
- · Highly resistant to impact and damage-resistant
- · Stylish appearance and both sides can be used and fit anywhere.
- · The special surface processing allows attachment of sheets.





Mini Sign Board

Product Size: W305 x H650(mm) Advertisement Size: W268 x H422(mm)





Sign Board







Multi Sign Board

Product Size: L245 x W408 x H1,000(mm) Advertisement Size: W290 x H696(mm)





Smart Sign Board

Product Size: L600 x W460 x H1,415(mm) Advertisement Size: W420 x H1.070(mm)

- · Advanced special surface processing ensures that the advertisement sheet will never come off,
- · Convenient to move with wheels
- · Stylish eye-catches design
- · Special material is highly resistant to impact,
- · Not knocked down in heavy winds, when the base is filled with water

Sign Board Stand













Four Side Sign Board Stand L400 X W400 X H1,000(mm)

Curb Mirror (S · type) W660 X H1460(mm)

Key Features

- · Side Tumbler Sign Stand lies more in advertising than parking restriction.
- · It is a very effective means to advertise businesses.
- · Eye-catching rectangular sign.
- · The single-body type is convenient to handle.
- · It is designed not to fall down, even in strong wind.
- · There is a hole under the grip through which water or sand can be filled to act as ballast.
- · Easy to move with a grip





Curb Mirror (C · type)

Size: H1,400 x Ø450

Reflecting mirror & Round shape advertisement face Ø380

Square advertisement face H210 x W410(mm)

Material: Main body-PE Reflecting mirror-acrylic

- · It has both reflectivity and sign board functions.
- · Both faces can be used and various advertisements are possible.
- · Accidents in the blind zone can be prevented if it is installed in the curved zone.
- · Environment-friendly product

Plastic Barricade







L1,500 x W450 x H880(mm)

Key Features

- · Possible to install with various angle(within 150 degree)
- · Good design

- · Excellent duurbility with moiding machine
- · Easy installation with assembly type

Safety Barrel, Smart Drum



L530 x H840(mm)

Key Features

- · Layered loading in warehouses is possible, and units can be sold in small units.
- · Enough stock to ensure even large orders can be quickly filled.
- · Orange and Red color available



L650 x W850(mm)



L580 x W800(mm)

- · Easy loading and storage
- · Better grip on the road surface by rubber bottom
- · For Highway and normarl road types





Traffic Cone



Traffic Color Cone L375 x W375 x H680(mm)

Key Features

- · Made from special materials and damage resistant
- · The very bright reflectors with excellent visibility
- · Easy to combine with accessories (Reflective cone bar, Reflector delineator)



Rubber Cone L400 x W400 x H750(mm)

Key Features

- · Durable and resilient
- · No decolorizing
- · High-intensity reflective sheets attached for good visibility
- · Compatible with other accessories (e.g. Delineator, Reflective cone bar)



Key Features

- · Special design for suitable to cone connecting bar
- · High brightness performance by high reflective sheet
- · Easy to stack and storage



Key Features

- · Special design for suitable to cone connecting bar
- · High brightness performance by high reflective sheet
- · Easy to stack and storage



Reflective Cone Bar

Length: 2,000 x 28Ø (mm) / Hook: 90Ø / Material: PC



Safety is not given but designed.

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