

TAZA RAIL



RAILWAY CATALOG

SOLUTIONS THAT CONNECT WITH CONFIDENCE



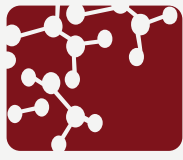
AAR/M1003
CERTIFICATE

ISO 9001
CERTIFICATE



HECHO EN MÉXICO
CERTIFICATE

www.taza.mx



TAZA
Polymer®

ABOUT US

We are a Mexican company with more than 55 years of experience developing high-performance engineering polymers designed to overcome the most demanding challenges across industries.

With world-class R&D, advanced technology, and custom manufacturing, we deliver superior strength, durability, and reliability.

Engineering that exceeds expectations. Performance that lasts.



+55 YEARS
OF EXPERIENCE



R&D
WORLD-CLASS
DEVELOPMENT



QUALITY
ADVANCED TECHNOLOGY



GLOBAL PRESENCE
IN MORE THAN
30 COUNTRIES



GLOBAL PRESENCE

We have a presence in more than 30 countries, including the United States, Canada, Australia, Brazil, Chile, Colombia, Peru, Argentina, and others.



POLYMER ENGINEERING FOR A
WORLD IN MOTION





RAILWAY INDUSTRY

We developed a high-resilience polymer that combines exceptional durability, recovery, and strength. Its performance has been validated by AAR-TTCL in the U.S. and in Mexico under AREMA criteria, exceeding 3 million cycles with outstanding results.



RAIL FASTENING SYSTEMS

TAZA develops and manufactures a wide range of railway fastening systems type, including W14, W14HH, "e"-Clip, Pandrol, and others.

TAZA-developed systems are suitable for tracks with 115, 136 and 141 lb/yd rails, ensuring reliable performance under demanding operating conditions.



HIGH STRENGTH
& PERFORMANCE



TESTED AT
INTERNATIONAL
LABORATORIES

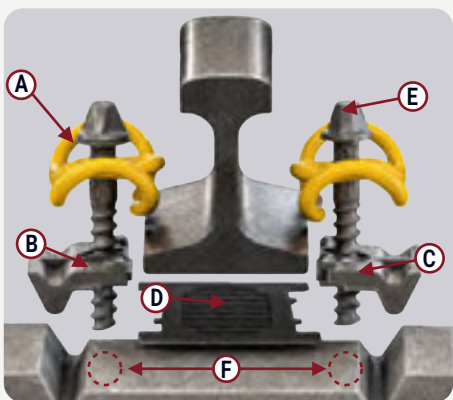


AREMA COMPLIANCE



OVER 3 MILLION
CYCLES SUCCESSFULLY
COMPLETED

W14 TYPE FASTENING SYSTEM



SKL rail clip



Inside
insulator



Outside
insulator



Rail polymer pad

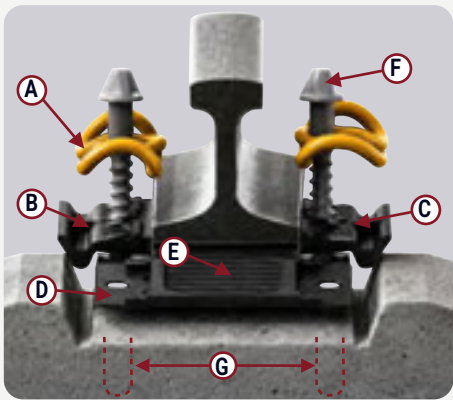


Tie lag screws



Screw dowel

W14HH TYPE FASTENING SYSTEM



SKL rail clip



Inside
insulator



Outside
insulator



Rail seat plate



Rail polymer pad

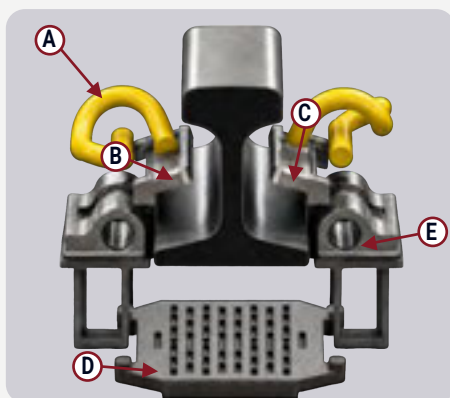


Tie lag screws



Screw dowel

CLIP "e" TYPE FASTENING SYSTEM



Rail clip



Insulator
(9.2mm)



Insulator
(6mm)

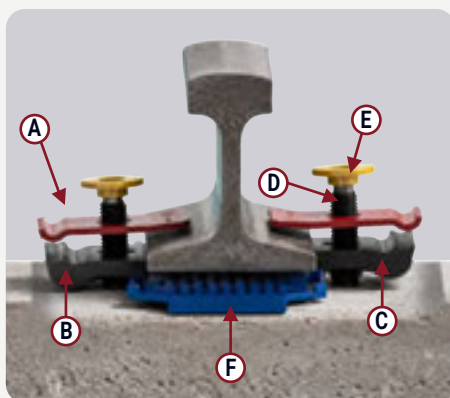


Rail polymer pad



Embedded
parts

GN TYPE FASTENING SYSTEM



Guide plate



Inside
insulator #8



Outside
insulator #6



SL bolt
(Washer & Nut)

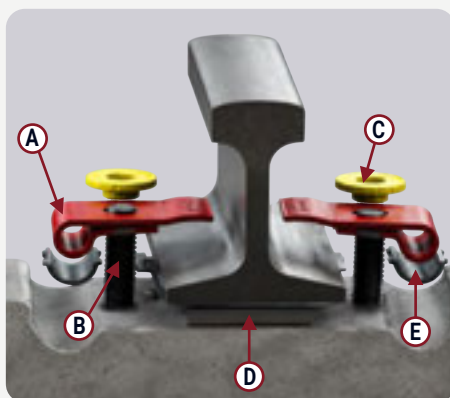


Insulating
washer



Rail polymer pad
115 & 136 lb / yd

RN TYPE FASTENING SYSTEM



Reinforced
guide plate



SL bolt
(Washer & Nut)



Insulating
washer

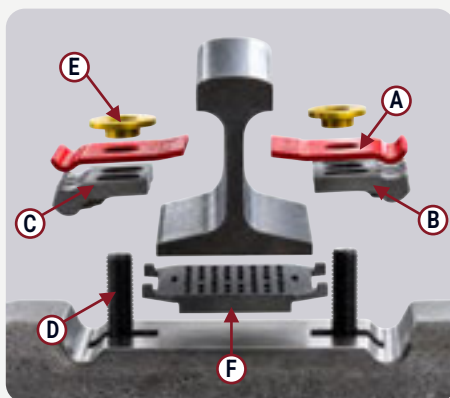


Rail polymer pad
115 & 136 lb / yd



Bearing

ES TYPE FASTENING SYSTEM



Guide plate



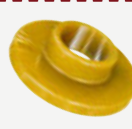
Inside
insulator



Outside
insulator



SL bolt
(Washer & Nut)

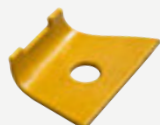
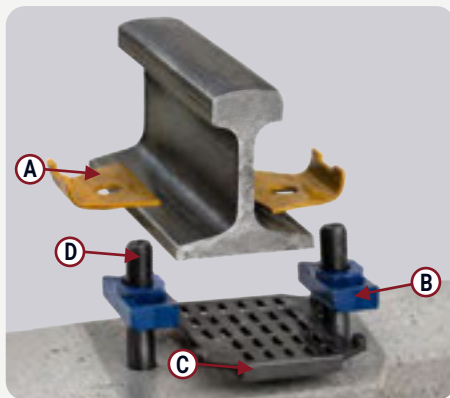


Insulating
washer



Rail polymer pad
115 & 136 lb / yd

NABLA TYPE FASTENING SYSTEM



Guide plate



Insulator



Rail polymer pad
115 & 136 lb / yd



SL bolt
(Washer & Nut)

POLYMER SLEEPERS

Designed with high-strength engineering polymers, they offer excellent durability, reduced maintenance, and greater operational efficiency compared to traditional concrete or wood sleepers.



HIGH PERFORMANCE AND DURABILITY

Resistant to moisture, corrosion, and chemical agents.



LOWER MAINTENANCE

Longer service life and fewer track interventions.



OPERATIONAL EFFICIENCY

Lower weight, faster installation, and reduced costs.

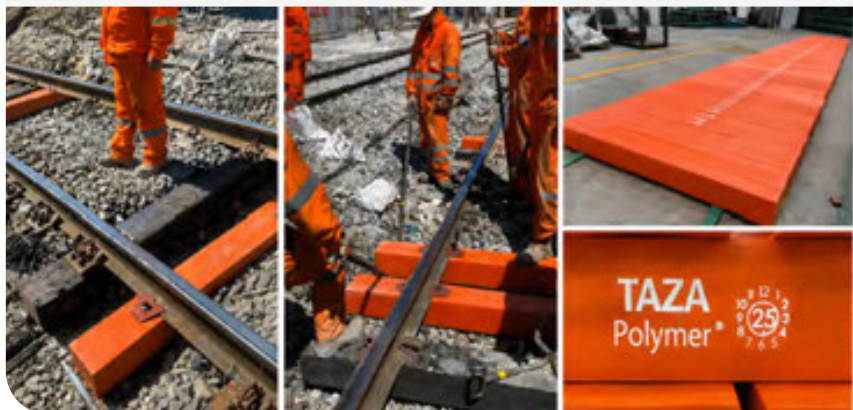


GREATER STABILITY

Absorb vibrations and impacts, improving track safety and service life.



An efficient and reliable solution for railway and industrial infrastructure.



UNDER SLEEPER PADS

TAZA railway under sleeper pads optimize track performance by providing controlled elasticity that improves ride quality while protecting the ballast and its components. Their ability to reduce vibrations, corrugation, and slippage helps minimize wear and maintenance costs.

Thanks to their fast installation through pre-assembly onto the sleeper, they streamline track works and provide a high-performance solution for more stable, durable, and efficient railway infrastructure.



- K1** Yellow / Hardness: 85–90 Shore A (Hard)
- K2** Blue / Hardness: 75–80 Shore A (Medium)
- K3** Green / Hardness: 65–70 Shore A (Soft)

MODELS:



MODEL WITH EMBEDDED THREE-DIMENSIONAL MESH

Embedded within the polymer and intended for delivery to sleeper manufacturers for installation during the concrete curing process.

HARDNESS:

K1

K2

K3

FEATURES:

- Thickness: 5 mm to 15 mm.
- Self-extinguishing.
- Resistant to chemicals, ozone, water, and diesel.
- High resistance to elongation, tensile stress, and tearing.



MODEL WITHOUT MESH EMBEDDED

Designed to be bonded to precast concrete sleepers. Includes adhesive, drill bits, screws, and anchors for each sleeper.

HARDNESS:

K1

K2

K3

FEATURES:

- Thickness: 5 mm to 15 mm.
- Self-extinguishing.
- Resistant to chemicals, ozone, water, and diesel.
- High resistance to elongation, tensile stress, and tearing.



GREATER
STABILITY



LOWER
MAINTENANCE



MAXIMUM
EFFICIENCY



REDUCES
VIBRATIONS
AND SHOCKS

RAILROAD SWITCHES

Elastómeros TAZA railway trackwork components are engineered to ensure track continuity and safety at connections between different routes, enabling efficient crossing and routing between railway tracks. These systems primarily include turnouts, sleepers, and other components. We offer trackwork assemblies with wood or concrete sleepers in No. 8, 10, 15, and 20 configurations.

Thanks to their specialized engineering and manufacturing, our trackwork components provide reliable, safe, and highly durable performance.



COMPONENTS

SWITCH RAIL



Enable smooth and safe routing of rolling stock.

STOCK RAILS



Support safe and stable train movement.

SWITCH ROD



Connects the switch mechanism to the rails, enabling turnout operation.

RBM FROG



Enables the safe passage of wheels through the track intersection.

CHECK RAIL



Guides the flanged wheels and prevents misalignment.

BRACES



Provide additional support and guidance for stable and safe transit.

GAUGE PLATE



Maintains the exact and uniform distance between the rails.

SLIDE PLATE



Support and reinforce the switch points, allowing smooth movement.

RAIL SEAT PLATE



Supports the rails and distributes train loads across the sleepers.

GUARD RAIL



Keeps the wheels aligned and controls lateral movement.



OPERATIONAL
SAFETY



RELIABLE
CONNECTIONS



HIGH
DURABILITY



PROVEN
PERFORMANCE

GAP FILLER

Safety and accessibility module designed to reduce the gap between the platform and the train, compensating for slight height differences and creating a continuous surface for passenger access.

Manufactured with high-strength, durable materials, it provides a more stable, comfortable, and safe boarding experience, minimizing risks during passenger entry and exit. Its design enhances accessibility and safety, optimizing station operations and providing a reliable solution for high-demand railway systems.



MAIN FUNCTION



PLATFORM ACCIDENT PREVENTION

Reduces the risk of trips and falls by closing the gap between the train and the platform.



PREVENTS OBJECT FALLS

Prevents personal belongings or luggage from falling into the gap between the train car and the platform.



FACILITATES ACCESS FOR PEOPLE WITH REDUCED MOBILITY

Creates a level surface that provides safer and more comfortable access for everyone.



MINIMIZES PLATFORM-TRAIN GAP

Allows occasional contact without causing damage, protecting the integrity of the system.



POLYMER SUPPORTS

TAZA® Polymer Supports are designed to provide stability, strength, and reliable performance in railway applications. Their primary function is to support and efficiently distribute loads transmitted by the infrastructure, helping to reduce stress concentration and vibrations generated during train operation.



MAXIMUM SAFETY
Superior resistance to vertical loads and extreme conditions.



EFFICIENT ABSORPTION
Vibration & seismic protection.



PROVEN DURABILITY
High-quality materials, longer service life.

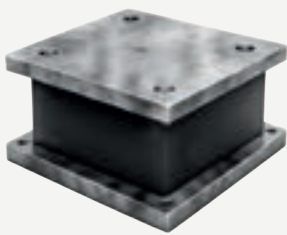


VERSATILE DESIGN
Solutions adaptable to different types of structures and requirements.



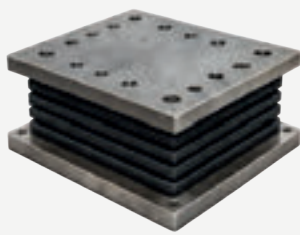
SPECIALIZED CONSULTING
Technical support throughout every stage of your project.

OUR POLYMER SUPPORT PRODUCT LINE



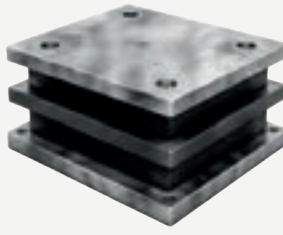
FIXED SUPPORTS

Provide permanent support and stability under vertical loads.



MOVABLE SUPPORTS

Accommodates thermal & seismic movement.



SUPPORTS WITH METAL PLATES

Improved load distribution and protection of the polymer core.



POLYMER SHEETS

High-quality polymer sheets for support manufacturing.



REINFORCED SHEETS

High load capacity and stiffness thanks to internal metal reinforcement.

A COMMITMENT THAT BUILDS THE FUTURE.

Every project is unique, which is why we deliver reliable solutions with certified quality and technical support to ensure solid, long-lasting results.



TAZA TRACK

The smart solution for stabilizing railway ballast.

TAZA® TRACK consolidates and stabilizes ballast, helping maintain track geometry, improve drainage, and reduce maintenance interventions. Its high-performance technology helps extend track service life and optimize operations.



Stabilizes and secures railway ballast.



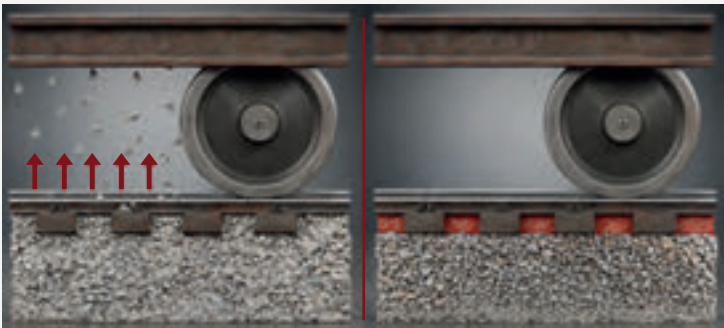
Maintains efficient drainage.



Reduces maintenance and extends track life.



Prevents ballast loss and projection.



Its molecular structure allows rainwater, liquids, and solvents to filter through, promoting efficient drainage within the ballast. It also binds loose stones together, preventing their displacement, projection, and pulverization, thereby reducing track maintenance costs.

BENEFITS

METRIC	OPERATIONAL BENEFIT	ECONOMIC IMPACT
70-80% reduction in tamping operations	Improved track geometry stability.	Lower maintenance costs.
2X longer ballast service life	Reduced ballast degradation and contamination.	Extended ballast cleaning and renewal cycles.
85% less maintenance at transitions	Reduced settlement at bridge and culvert approaches.	Significant reduction in corrective maintenance interventions.
USD \$100,000 - \$150,000/km	Fewer major rehabilitation projects.	Estimated savings per deferred maintenance cycle.
USD \$1.2 - \$1.8 MM	Increased infrastructure availability.	Estimated cumulative savings over 10 years on a 20 km railway line.



LOWER CLEANING COSTS

Reduces ballast loss.



PROTECTS EQUIPMENT

Prevents ballast suction and protects screens and filters.



GREATER STABILITY

Reduces ballast displacement under high pressure.



RECOMMENDED SOLUTION

Complete ballast binding.



MORE EFFICIENT MAINTENANCE

Facilitates track maintenance.

MISCELLANEOUS COMPONENTS

High-performance components, designed and manufactured with high-quality materials to deliver maximum strength, durability, and reliability in the most demanding industrial applications.



**STRENGTH &
DURABILITY**



**HIGH
EFFICIENCY**



**GUARANTEED
QUALITY**



**SHIM / RAIL FASTENING
SYSTEM**



**SHIM / RAIL FASTENING
SYSTEM**



THIRD RAIL INSULATOR



**ROLLER
(ESCALATOR)**



**SHOCK
(MOTOR DRIVE)**



**SHOCK
(internal)**



**115 lb RAIL SUPPORT &
PAD**



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