

FASTENINGS & SLEEPERS

RAHEE
Quality First, Speed Always



RAHEE IS WELL EQUIPPED WITH DESIGN FACILITIES AND IS CAPABLE OF SUPPLYING ELASTIC CLIPS AS PER SPECIFIC REQUIREMENT OF CUSTOMERS.

OVERVIEW

Rahee is a leading supplier of Rail fastening systems, with manufacturing experience of over 60 years. Rahee Group's innovative outlook has propelled the company as a leader in this field.

Rahee's range of fastenings covers a wide variety of systems to suite specific project requirement. The range includes Elastic Fastenings, Rigid Fastenings, Track Bolts and Nuts, Fish Plate and Bolts, High Tensile Fasteners, Rail Screws, Rail Pads and Special applications.

Rahee endeavours constantly to develop innovative solutions for better performance. Rahee's

Zero Restraint Fastening System (patented), is a unique & innovative solution developed to improve upon conventional fastening system used by railways on bridges. Rahee's design of ZRF System has been approved and adopted by the Ministry of Railways for use in India.

Rahee in its pursuit to deliver the best and most modern solutions to its customers, has also entered in a Joint Venture with Pandrol UK, world leaders in the field of Resilient Fastening System. The JV company manufactures and supplies one of the most advanced elastic fastening systems in the world.

Manufacturing experience of over **60 YEARS**

Rahee's range of fastenings covers a wide variety of systems to suite specific project requirement.

ELASTIC FASTENINGS



ELASTIC RAIL CLIPS

Rahee manufactures elastic rail clips to customer requirement. It is well equipped with design facilities and capable of supplying customised elastic clips for different rail section and toe load requirement of the customers. All facilities for testing are available at our works. Finite element analysis is carried out to design clips. Special coatings can be applied on the clips as per the customer's request.

TRACK MATERIALS

FISH PLATES

We manufacture and supply fish plates to suit UIC, BS and other standard rail profiles. We have already developed a wide range of rolled fish plate profiles for rail sections such as: UIC 60, UIC 54, U33, BS 80A, BS 90A and IRS 52 KG

STEEL CLIPS

Steel Clips are designed to hold the foot of the rail with the Base Plate or Sleepers and are fastened to the rail and Base Plates with standard or special shaped Bolts & Nuts.

PRODUCTS CAN BE MANUFACTURED AS PER CLIENT SPECIFICATION IN COMPLIANCE WITH INDIAN OR INTERNATIONAL STANDARD

TRACK BOLTS & NUTS

Rahee manufactures and supplies bolts and nuts for Railway use. The products can be manufactured as per the client specification in compliance with Indian or International standard specifications.

HIGH TENSILE BOLTS & NUTS

We use modern bolt forging with continuous atmosphere controlled heat treatment facilities to produce high quality heat-treated threaded high-tensile fasteners. Heat Treated Fastenings are manufactured to Indian standard specification or as per customer's requirement.

SPIKES

Rahee supplies Spikes as per the customer's drawings and specifications in galvanized as well as in non-galvanized condition. We manufacture hot forged and hot thread rolled Screw Spikes / Drive Spikes/ Dog Spikes as per customer's requirements.

RUBBER PADS

Rahee has the capability to design and manufacture pads as per customer specification in line with international standards. We manufacture pads for use on standard track on PSC Sleepers, Steel Sleepers for Bridges, Turnouts and Rail Expansion Joints.

ADVANTAGES OF GRSP ARE

- ~ Resilience for rail vibration.
 - ~ Higher creep resistance.
 - ~ Electrical resistance.
 - ~ Increase in service life of rails, sleepers and other rail fastening.
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RANGE OF PADS MANUFACTURED BY RAHEE:

~ Composite Rail Pads

10 MM

Thick GRSP

~ Studded Rail Pads

~ Nylon Cord Reinforced GRSP for Turnouts

25 MM

Thick Nylon Cord Reinforced Elastomeric Pads for Bridge Sleepers

~ Steel Embedded Rubber Pad for Fastening System on Bridges.





ZERO LOAD FASTENING

ZERO RESTRAIN FASTENING SYSTEM FOR BRIDGES

ZRF is a unique innovative solution designed by Rahee to overcome the shortcomings of conventional fastening system used by railways on bridges. Rahee's design of ZRF assembly on Steel Channel Sleeper or H-beams meets the requirement of IRPWM (i.e. Rail free fastening). Rahee design uses Elastic Rail Clip Mk-III.

SLEEPERS

H-BEAM STEEL SLEEPER FOR BRIDGES

The H-beam sleeper is made of single rolled H-beam section having adequate bearing area, robust structure and accurate dimensions which are more suitable for the tracks running over Steel bridges.

Canted bearing plates are riveted on the H-beam sleeper to hold the running rails using rail elastic fastening system.

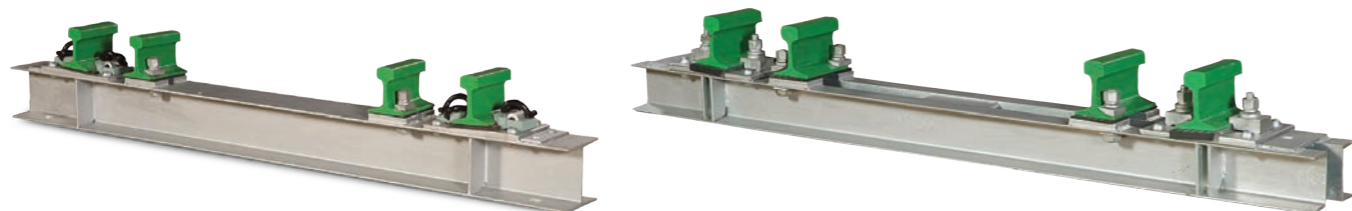
STEEL CHANNEL SLEEPER FOR BRIDGES

Steel channel sleepers are designed for use in the railway tracks running over Steel bridges where a resilient ballast bed cannot be used.

Steel channel sleepers are fabricated from steel channel sections, wherein two channels are welded together to obtain the required strength. Both running and guard rails are accommodated on the channel sleeper.

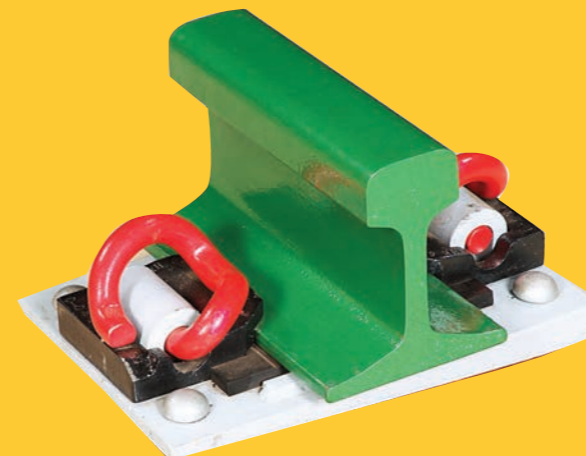
STEEL SLEEPERS FOR STANDARD TRACK

Steel sleepers are used for standard railway tracks and turnouts subjected to medium or heavy axle loads. They are lightweight and dimensionally more accurate than wooden or concrete ones. Their multiple advantages, including lower cost compared to wooden sleepers, make them an effective technical solution for modern rail networks. Rahee offers a wide range of steel sleeper designs, including ones for heavier axle loads and higher speeds.



SALIENT FEATURES

- ~ Provides no restraint to longitudinal movement of Rails
- ~ Provides rigid lateral support to Rail for stability, correct gauge and alignment
- ~ Use of Elastic Fastening provides vertical stability to Rail
- ~ Provides higher degree of resistance to Rail overturning
- ~ Easy to install and inspect in installed condition
- ~ Fit for re-application
- ~ No loose component is involved
- ~ Uses Elastic Rail Clip Mk-III, a stable and proven elastic clip
- ~ Facility for interchangeability of Rail





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