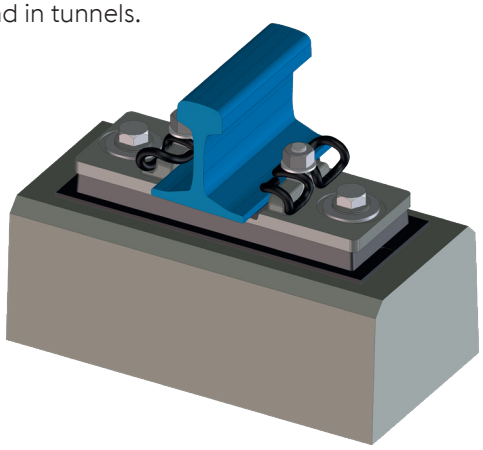
ELASTIC RIBBED BASE PLATE SUPPORT ERL 17,5-P

Description

Elastic supports for rails or ribbed plates are used for improved distribution of wheel load, reduction of RCF damages and vibration decoupling of the rail from the substructure.
For this purpose, elastic intermediate plates, so-called pads are arranged between ribbed base plates and supporting surfaces, e.g. concrete sleepers. These pads can be adjusted in shape and function to the conditions in the turnout and feature differentiated spring stiffness values according to the special requirements and targets of the customer.
Static stiffness values of 4 to 25 kN/mm can be achieved with the elastic ribbed plate support ERL 17.5-P.
The ERL 17.5-P is particularly suitable for a wide variety of ballastless track systems on slab tracks, bridges and tunnels, but also for ballasted track systems on main lines, light rail tracks, metros and the like.
Another area of application for elastic ribbed plate supports is the minimization of structure-borne noise on bridges and in tunnels.



Added Value

- universally applicable for different rail profiles and rail fastening systems
- customizable
- creation of track-like conditions for deflection and load distribution in the complete turnout
- high availability by improving the position stability and reducing RCF damages
- reduction of structure-borne noise
- low maintenance requirements due to high-quality and durable components
- sustainable reduction of the maintenance costs of the superstructure

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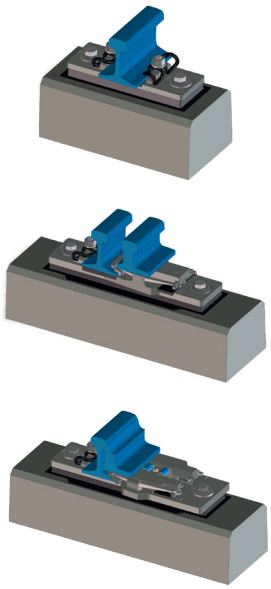
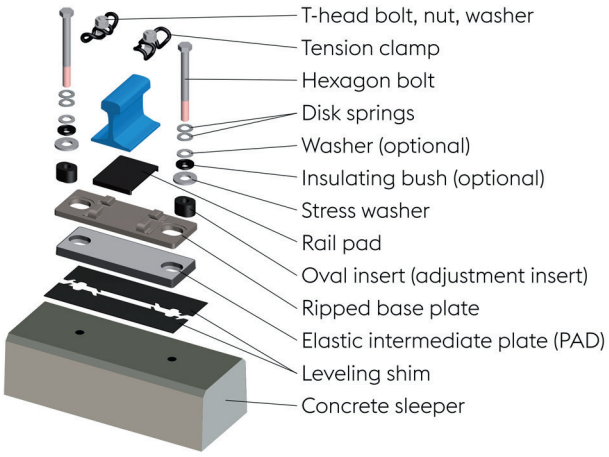


Design Characteristics

- high-elastic base plate support with a defined preloading
- functional spring areas and areas for overload protection on the bottom side of the pads for even deflection and load distribution at all support points in turnouts
- support points can be adjusted horizontally by using asymmetrically drilled oval inserts (± 8 mm) in 2 mm steps
- support points can be adjusted vertically by using levelling shims (-4 mm to +26 mm)
- stray current reduction by insulation possible



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