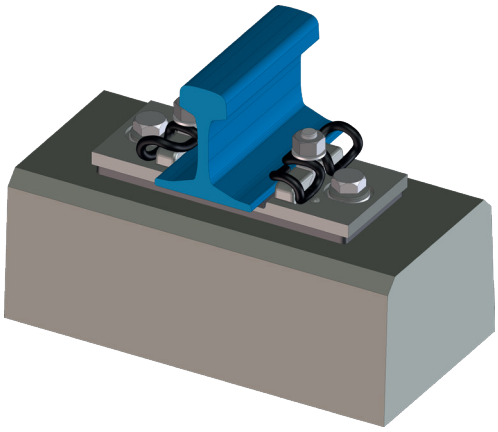
RAILWAY SYSTEMS
by voestalpine

ELASTIC RIBBED BASE PLATE SUPPORT ERL 30-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 30 and 40 kN/mm can be achieved with the elastic ribbed plate support ERL 30-P.
The ERL 30-P is intended for use on ballasted tracks.

Another area of application for elastic ribbed plate supports is the minimization of structure-borne noise on bridges and in tunnels.



Added Value

- 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

voestalpine Turnout Technology Germany GmbH
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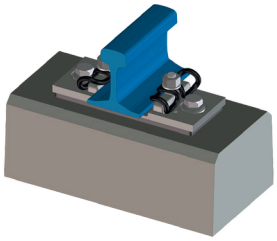
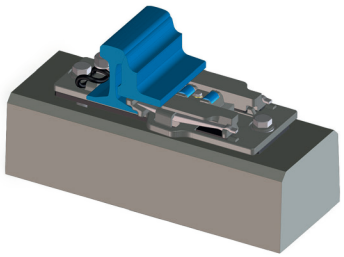
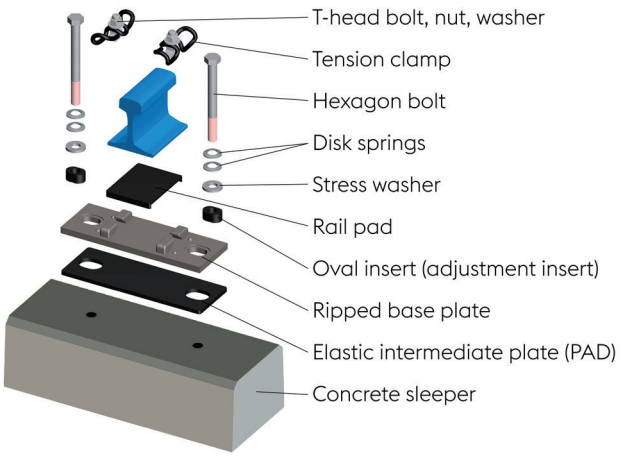




Design Characteristics

- elastic base plate support with a defined preloading
- for rail profiles 60E1 und 60E2A1
- 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 (± 6 mm) in 2 mm steps



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