



# HIGHLY-ELASTIC RAIL FASTENING PLATES WITH “SKL” RAIL CLAMPS

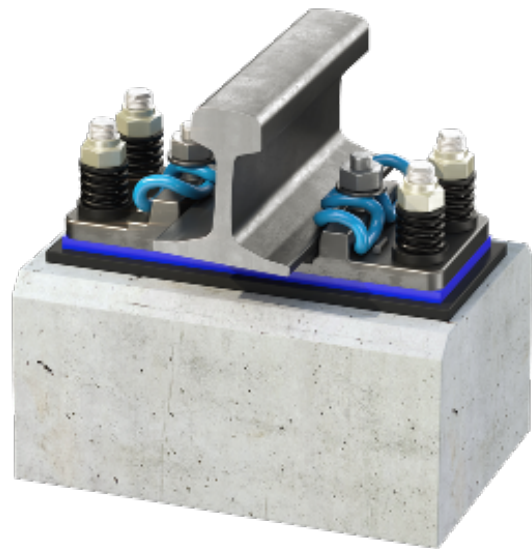
## Fastening for ballastless track

### Description

Plates, highly-elastic plate pads as well as “SKL” rail clamps are used to attach turnout parts on a ballastless track.

The rail clamps ensure a permanent resilient tension. The creep resistance and twisting resistance achieved meet the requirements placed on a continuously welded track. The plates are mounted on the base plate via four or two anchors and pre-tensioned coil springs.

Rigidity ranges 15 - 100 kN/mm.



### System advantages

- » Continuously elastic mounting
- » Reduction of ripple and slip wave formation
- » Low maintenance required
- » Long service life
- » Plate fastening can be selected, e.g.: Anchor bolts, screw anchor
- » Height and lateral adjustability possible
- » Top down / bottom up installation is possible
- » Delivered with or without corrosion protection according to environmental conditions

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## Additional Description

The proven plate superstructure with, for example, 4 anchor bolts M27 / 2 anchor bolts M33 and SKL rail clamps ensure a permanent and secure mounting on a ballastless trackway in local transport.

The dynamic forces of the railway traffic are dissipated into the ground by the elastic components of the fastening. The plate with the rail clamp fastening allows for a uniform deflection and limits the tilting of the rail.

The elasticity of the components is adjusted to the axle loads and the driving speeds with the aim of achieving the most uniform deflection of the rails and sleeper components.

The elasticity reduces the wheel contact forces and therefore the wear on the track, the sub-structure and the vehicles as well as the resulting airborne and structure-borne noise.

## Material

- » Plate: Structural steel / GJS ductile iron / cast steel
- » Rail clamp: Spring steel
- » Intermediate rail plates / plate pads: according to requirements
- » Corrosion protection: according to requirements

## Technical description

- » Meets EN13481 standard for fastening categories A, B, C, D
- » Pre-assembly possible
- » Spring force about 12 kN/clamp

## Cooperation with Getzner Werkstoffe

voestalpine and Getzner Werkstoffe, the world's leading specialist for vibration protection, founded a worldwide cooperation for elastic solutions in the railway sector. The cooperation agreement includes the development, manufacture, and marketing of vibration isolating products and systems to improve the quality of railway tracks.

The integration of elastic solutions in the railway superstructure protects against vibration and reduces track stress. With their cooperation, Getzner and voestalpine offer railway operators worldwide additional opportunities to increase the performance of sensitive railway network components and reduce life cycle costs.

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