



ELASTIC RAIL FASTENING – PLATES WITH SPRING CLIP “E-CLIP”

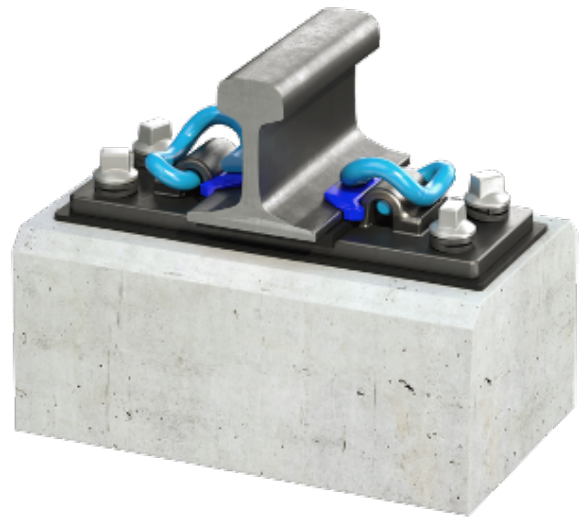
Fastening on concrete bearers in ballast track

Description

Baseplates with spring clips type “e-Clip”, rail pads and baseplate pads are used to mount the turnout components on concrete sleepers.

The spring clip ensure a permanently elastic clamping. The creep resistance and twisting resistance achieved meet the requirements placed on a continuously welded track.

The plates are mounted on the sleepers by 4 coach screws and double spring washers.



System advantages

- » Permanently elastic fastening
- » Good creep and torsion resistance for use in the continuously welded track
- » High safety against tipping
- » Long service life
- » Average space required
- » Baseplate fastening can be selected, e.g.: coach screws, push-through bolts, angled guide plates
- » The stiffness of the elastic rail pads can be chosen
- » Delivered with or without corrosion protection according to environmental conditions

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Additional description

The proven plate superstructure with spring clips ensures a permanent and secure fastening on bearers in ballast track.

The spring clips can be used with or without elastic pads between the turnout components and the plates.

The e-Clip is tensioned by inserting it in a lug, which is positioned parallel to the rail foot and fastened on the plate. The toe of the e-Clip must lie on the rail side and the heel rests on the shoulder. The installation and removal of the spring clips is done with the help of defined tools.

Material

- » Plate: Structural steel / GJS ductile iron / cast steel
- » Spring clip: Spring steel
- » Rail pads / under baseplate pads: according to requirements
- » Corrosion protection: according to requirements

Technical description

- » Meets EN13481 standard for fastening categories A, B, C, D, E
- » No pre-assembly possible
- » Spring force max. 14 kN/clip

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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