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 range 15 - 100 kN/mm.

Added value
» 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

Technical description
» meets EN13481 standard for fastening categories A, B, C, D
» pre-assembly possible
» spring force about 12 kN/clamp

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HIGHLY-ELASTIC RAIL FASTENING

Description
The proven plate superstructure with, for example, 4 anchor bolts M27 / 2 anchor bolts M33 and Skl rail clamps ensures 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.

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

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 substructure and the vehicles as well as the resulting airborne and structure-borne noise.