



SBW4

Description

The SBW4 rail fastening system is the SB-type rail fastening system, with all rail mounting elements designed and produced by vaFS.

This system is characterized by the optimized parameters responsible for the way the rail is fastened. The SB4-type rail clip can be used as an alternative to other SB-type rail clips. The unique bending technology and high quality material guarantee that the product ensures the required pressure of the rail to the sleeper, as well as the possibility of resilient deformation of the rail in a horizontal plane by the action of lateral forces.



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Technical aspects of SBW4 system

- » typical field of application – Conventional Rail with concrete sleeper on ballasted track
- » axle load – max. 260kN
- » speed ≤ 250 km/h
- » high rail longitudinal resistance – min. 9 kN
- » improved electrical resistance ≥ 10 k Ω thanks to modified rail pad shape
- » clamping force for fastening system – 20 kN \div 22 kN
- » gauge adjustment in the range of ± 4 mm in step ± 2 mm
- » material of the rail pad: TPU
- » standardized clip positioning allows to implement automatic assembly process
- » combination of PWE-type rail pad and SB4-type of rail clip allows for a very high ability to attenuate impact loads (high damping rate) – min 40%
- » casting anchor material reduced by 20% in order to decrease the carbon footprint