



Chamber filling elements in covered track

The optimum sealing for Vossloh fastening systems

Vossloh's chamber filling elements

Sustainable insulation of fastening systems



Urban Transport – Always smooth with stop and go

Frequent starting and stoppings at many stops within the shortest time characterize urban transport. In this case, highly elastic components provide for comfortable travelling at high operating safety and reduced noise – at axle loads of up to 18 t (Metro) / 13 t (Tram).



Acoustic and electrical insulation of the rail

A rail fastening system in slab tracks must be perfectly sealed – in order to prevent stray current and to reduce the vibration in the track and thus also the noise loading of the train traffic. Vossloh's chamber filling elements were specially developed for insulation of slab tracks in urban traffic. They are inserted into turnouts, soft concrete or grass and seal the rail electrically and acoustically.

Tailored solutions for tram tracks

Vossloh's chamber filling elements are made of tyre granulate, polyurethane adhesive and water. They are composed of an external and internal element as well as an elastic rail foot boot. These external and internal elements are adapted to the respective superstructure of the track in cooperation with the customer.



Added value for rails and tracks – advantages of Vossloh's chamber filling elements:



Property

The combination of tailored chamber filling elements with elastic fastening systems ...

Thanks to the durability of the components ...

With tailored solutions ...

Advantage

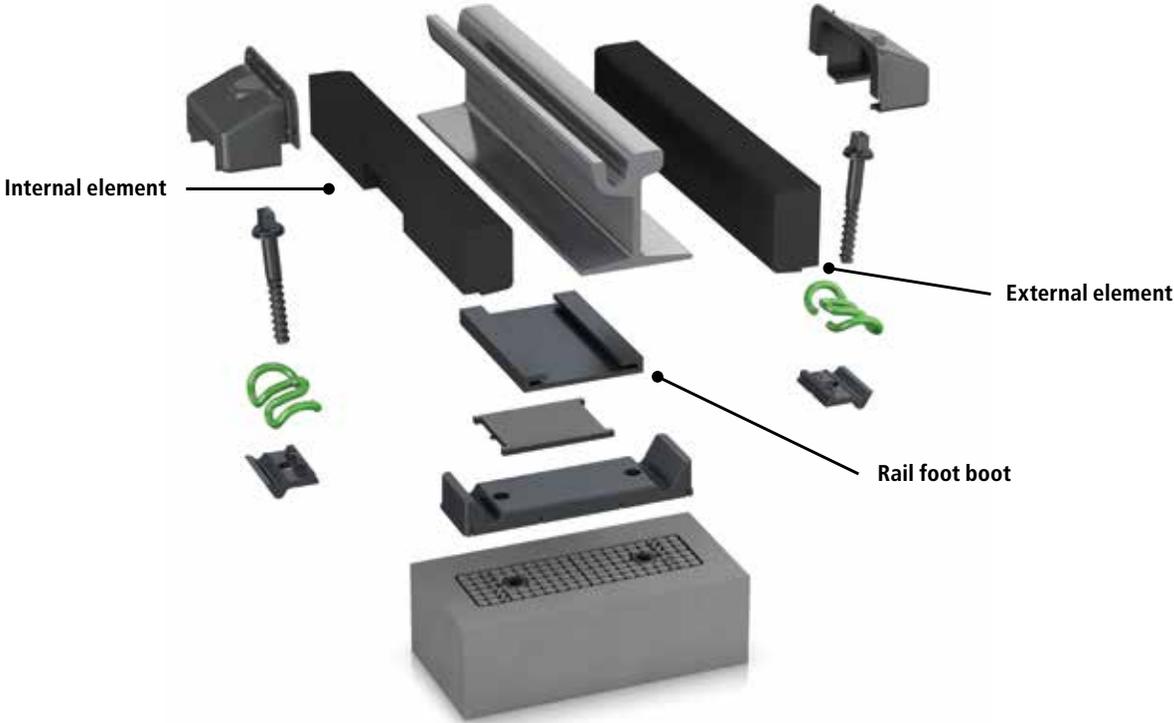
... lengthens the lifetime of the rail and the entire track.

... long-term life-cycle costs are reduced.

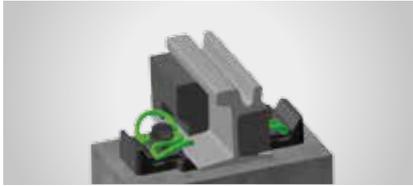
... Vossloh offers its customers a comprehensive tender for tram tracks.

Vossloh fastening systems with chamber filling elements

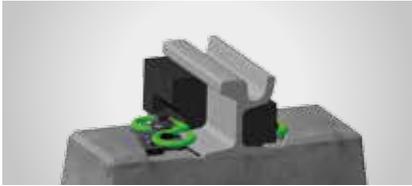
System W-Tram in a covered track



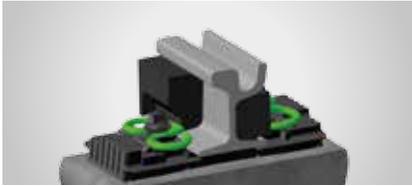
Combination possibilities of the chamber filling elements with Vossloh fastening systems



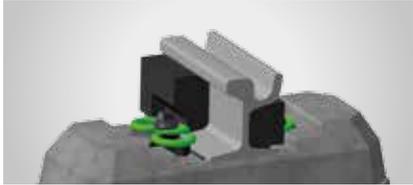
System DFF MC/CT



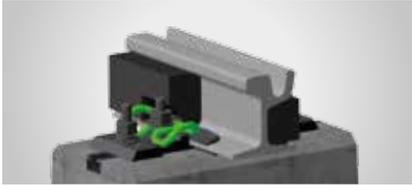
System W 25



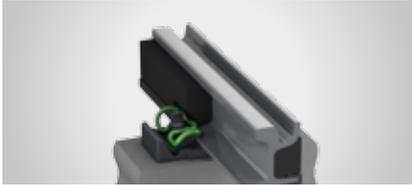
System W 25 Tram



System W 25 N



System W 21 SH



System DFF 21

Safety. Comfort. Track protection.

Used worldwide

Up to the present a total of 38 km rail tracks have been equipped with Vossloh chamber filling elements – mainly in China. A modern low-floor tram opened in 2015 in the million-city of Suzhou. This project involves 16 km of double track with W-Tram fastenings and chamber filling elements.



Technical data KFE		
Density	> 0.9 g/cm ³	GB/T 6343-2009
Tensile strength	≥ 1.1 MPa	GB/T 10654-2001
Elongation at break	≥ 66 %	GB/T 10654-2001
Volume and mass change due to water adsorption	Volume change: no water adsorption ≤ 1 %	GB/T 1690-2010
Conductivity in dry environment	< 0.3 · 10 ⁻³ S/km	GB/T 1410-2006
Conductivity in contact with salt water	< 0.8 · 10 ⁻³ S/km	GB/T 1410-2006

Remark

Contents, figures and technical data in this brochure display the performance of the fastening system, however, they always depend on external conditions. Please contact us to enable us to develop a solution for you that will be customized to your requirements. The information presented corresponds to the technical state at the time of printing; in the meantime, continuous research and development programmes at Vossloh could have caused adaptations of the product.

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