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ELTECPUR® rail

Elastic moulded parts made from eco-friendly rubber granules

ELTECPUR® rail STANDARD TRACK SYSTEM

The insulation system for continuous rail mounting

HET Elastomertechnik GmbH
Hagenauer Straße 53 ■ 65203 Wiesbaden
T: +49(0)611 50 40 29-10 ■ info@het-group.com

het-group.com

/hetsocialmediateam @het_elastomertechnik

HET ELASTOMERTECHNIK

HET and Tradition

HET Elastomertechnik GmbH, established in 1991, manufactures molded parts using high-quality recycled rubber. Our core business is the production of rail insulation systems for metropolitan railways. For this sector, we produce components for various track systems and track crossing systems as individual solutions for local rail traffic for streetcars in Germany and abroad.

Our operations cover everything from the development to the production of these systems. Close cooperation with our customers and our own continuous technical production developments have enabled us to repeatedly introduce innovations, which we have registered and received numerous patents for.

THE HEART OF OUR COMPANY

We are committed to providing our customers with a cost-effective solution that enables them to acoustically and electrically insulate streetcar tracks and railway tracks, while meeting noise reduction and vibration minimization requirements, as well as compliance with the electrical requirements of EN 50 122-2.

And we do this without losing sight of the respective project specifications while ensuring international standards are always met.

Our references include many thousands of kilometers of track in Europe and further abroad. Numerous transport companies at home and abroad have been using our ELTECPUR® rail insulation systems for many years. Our customers place their trust in our many years of experience and use of state-of-the-art technology.

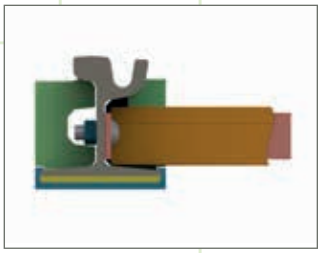
At our company, the following important criteria are always a priority during development:

- Cost-effectiveness
- Compatibility with road constructions
- Eco-friendliness
- Vibration damping properties
- Easy installation

Customized Solutions

ELTECPUR® rail STANDARD TRACK SYSTEMS from HET are easy-to-use insulation systems where continuous rail mounting is desired. They are comprised of an inner and an outer element and an elastic rail foot profile covering or continuous rail grouting (bitumen or polyurethane). Depending on the design of the streetcar track/track superstructure, the rail foot profiles of the ELTECPUR® rail STANDARD PLUS TRACK SYSTEM version can be optionally designed with different spring characteristic curves for the desired rail deflection or insulation performance. Elastic rail grouting can be used as an alternative to the rail foot profile.

ELTECPUR® rail STANDARD TRACK SYSTEM | grouting option: Bitumen



ELTECPUR® rail STANDARD PLUS TRACK SYSTEM | grouting option: Bitumen

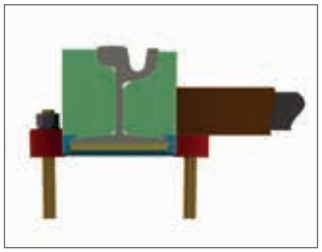
ELTECPUR® rail STANDARD TRACK SYSTEMS are primarily suitable for tracks with tie-bars. Fixation is completed using our ELTECPUR® rail Isolation Clamps. The versatility of our production technology ensures these systems can be used in road sections as well as for grassed tracks.

The individual elements of our ELTECPUR® rail STANDARD TRACK SYSTEMS are manufactured to order and in consultation with the customer, customized to fit the respective superstructure and are generally between 600 and 1,500 millimeters in length. The individual rail filler blocks are easy to install and, where necessary, are free of constraints on the fixation spacing.

ELTECPUR® rail filler blocks not only fill the rail chamber with their elastic properties and smoothest possible outer surfaces, they also mechanically decouple the elastically supported tracks from the rigid road structure.

In addition, ELTECPUR® rail filler blocks are also instrumental in reducing structure-borne sound, airborne sound, corrosion and stray current. This also includes the effective insulation of all attached components on the streetcar track (switch control boxes, tie-bar encapsulation, drainage elements, grounding elements and more).

We offer additional versions of this system for use in specific applications. For example, as a joint-free system where the rail filler blocks are extended to just below the top of the rail (TOR), avoiding the need for potentially elaborate rail joint sealing.



ELTECPUR® rail STANDARD PLUS TRACK SYSTEM | grouting option: TOR-5 mm

ELTECPUR® rail STANDARD PLUS TRACK SYSTEM | grouting option: TOR-5 mm with Connector

When using rail filling elements, thermal expansion and shrinkage can cause the gaps between rail filling elements to widen. With our patented ELTECPUR® rail Connector, the individual rail filler blocks are firmly connected to one another, so the gaps between the rail filler blocks barely widen at very cold temperatures.

The Advantages of ELTECPUR® rail STANDARD TRACK SYSTEMS

ELTECPUR® rail STANDARD TRACK SYSTEMS are quick and easy to install and also ensure effective sealing of the rail foot. The insulation system can be produced as self-clamping, so that no installation aids are needed thanks to the product's clamping function. ELTECPUR® rail STANDARD TRACK SYSTEMS can be used for all rail types after checking.

- Vibration damping
- Electrical insulation / waterproofing
- Stability
- Compatibility with both hot pouring of joint sealants and plastic joint sealants
- Handiness / precision fit
- 100% recyclable
- Positive ecological footprint
- No maintenance necessary

Technical data:

- Bulk density: ~1.1 g/cm3 (DIN 52102-RE-VB)
- Material properties in accordance with DIN 45673-8
- Resistance to water and deicing salts in accordance with sections 6.4.3 and 6.4.4
- Resistance to aging in accordance with section 6.4.5
- Electrical insulation in accordance with DIN EN 50122-2
- Heat resistance within the range of surface welding temperatures (+ 300°C)

References

We have successfully implemented numerous projects of various sizes for our customers. HET Elastomertechnik GmbH is in a position to provide references throughout Europe and in Asia, North America, Northwest Africa and the Middle East.

All of the brochures and information material we provide are intended to advise you to the best of our knowledge. However, their content is not legally binding. We reserve the right to make technical changes.

HET Elastomertechnik GmbH | Hagenauer Straße 53 | 65203 Wiesbaden (Germany) |
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QUALITY AND SERVICE – OUR KEY TO SUCCESS