GLUED INSULATED RAIL JOINTS

FACTORY ASSEMBLED OR KIT FOR ON-SITE INSTALLATION

Insulated rail joints (IRJ’s) are the products which guarantee electrical separation of a rail section for signal and safety purposes. Today’s signal and security technology at Railways predominantly works with track electric circuits whereas the rail assists as an electrical conductor. At the demarcation point of the track circuits, the rail is interrupted by insulated rail joints. Hence, the signal block sections of the track are marked off to each other. Insulated rail joints are required to determine the position of the train for the purpose of safe signal control.

RELIABLE SAFE AND DURABLE

Depending on customer requirements our field insulated joint kit, ETW2 or custom assembled rail joint plugs, ETW1 are produced with carbon steel joint bars for use on heavy haul and transit rail lines. Features 6 hole Insulated Joint Bars tested according to AREMA Chapter 4 requirements for Insulated Rail Joints, they offer the highest safety, reliability and durability in all climates.
OVERVIEW OF INSULATED RAIL JOINTS

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<tr>
<th>Feature</th>
<th>Function</th>
<th>Benefit</th>
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<tr>
<td>Available for the most popular AREMA rail profiles</td>
<td>On 115RE, 132RE, 136RE and 141RE rails</td>
<td>Available for all common flat bottom</td>
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<td>Precisely machined carbon steel joint bars in 6 hole configuration</td>
<td>Strong adhesive for load transmission</td>
<td>Use on heavy haul lines and transit systems</td>
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<td>Passed qualification testing according to AREMA Chapter 4 testing requirements</td>
<td>Excellent electrical resistance, rolling load and longitudinal compression</td>
<td>Increased safety despite climate conditions</td>
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<td>ETW1 rail plug lengths are manufactured according to customer requirements</td>
<td>Rail plugs can be assembled in 20 foot to 40 foot lengths</td>
<td>Maximum durability, customized solutions</td>
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<td>Technical support for kit assembling</td>
<td>After sales education and training</td>
<td>Quick and easy field installation possible by trained railroad personnel</td>
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1. Accessories
2. Insulating ring
3. Two component glue
4. End post
5. Insulated fishplates
6. Wooden box
7. Fastening material

Insulating sleeves
End post
Insulating steel joint bar
Insulating layer with fiberglass insulation and glue
HV-tensile bolt