



STB Insulated Rail Joint System



INSULATED RAIL JOINT SYSTEM FROM HIRD RAIL
DESIGNED TO LAST AS LONG AS THE RAIL



HIRD Rail have manufactured and supplied insulated rail joints for over 10 years. Our technical expertise and manufacturing experience combined with extensive design and product development has lead to a world leading joint system.

A close-up, grayscale photograph of a rail joint, showing the intricate details of the metal components and the surrounding structure. The image is slightly blurred, emphasizing the texture and form of the rail.

Endurance tested to
300 million tonnes!

Absorbs high tensile &
compressive track forces
in extreme temperatures

Designed to suit all
European sleeper spacing
configurations

Guaranteed electrical
isolation through the
service life of the joint

The joint profile is
designed to fit within the
space envelope specified
for mechanical tamping &
grinding/milling machines

Available with weather
proof coating guaranteed
for 15 years

IRJ tested to 300 Million Gross Tonnes

Photo shows the actual tested joint



The STB joint system has undergone extensive and rigorous testing to meet the most demanding performance specifications set by international railway operators. For example:

- Endurance testing through high cyclical loads combined with electrical testing to high voltages
- Tensile testing to simulate extreme temperatures
- Water-soak testing
- Protective coating development
- In track testing
- All fastening and sleeper configuration acceptance

Assembled into rails at our manufacturing facility in Doncaster, the system is being adopted across the UK by the national infrastructure owner Network Rail. It is also assembled under licence at a fully audited facility in The Netherlands.

This facility has been approved and authorised to make the STB rail joint, meeting the exacting standards required in the Hird Rail Quality Management System. Regular quality audits are undertaken to ensure compliance with our high performance standards.

Hird Rail is founded on delivering proven technology and services to rail infrastructure operators worldwide. We are well positioned to serve our customers, wherever they are and whenever they need us.

Assembly partners are now actively being sought across the globe to ensure that the STB joint kit system is available to network operators in efficient and cost effective batches.

hirdrail.com



To find out more about the
STB joint system, contact
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HIRD Rail Development (HRD)
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